

Figure 1

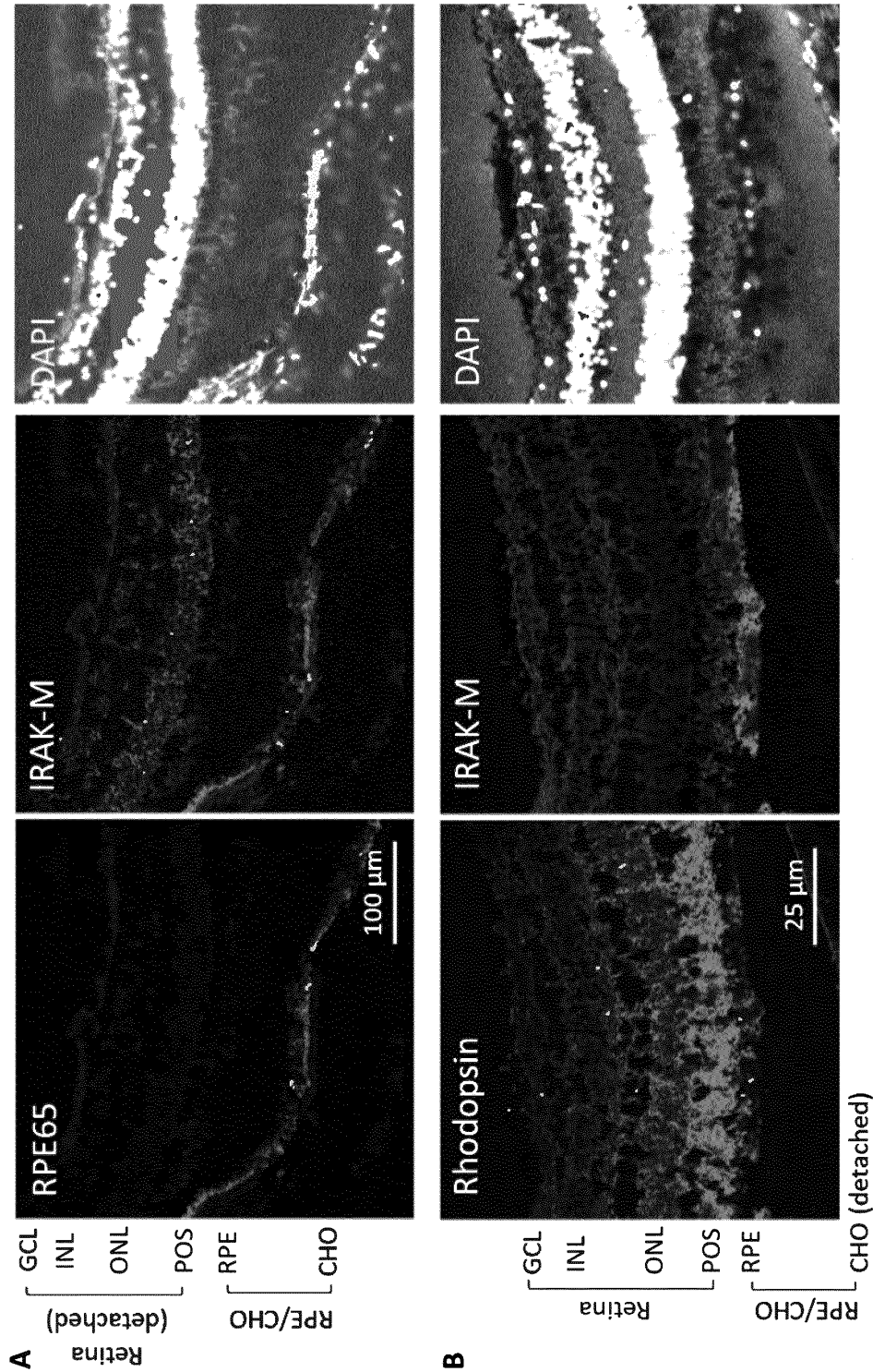


Figure 1 (continued)

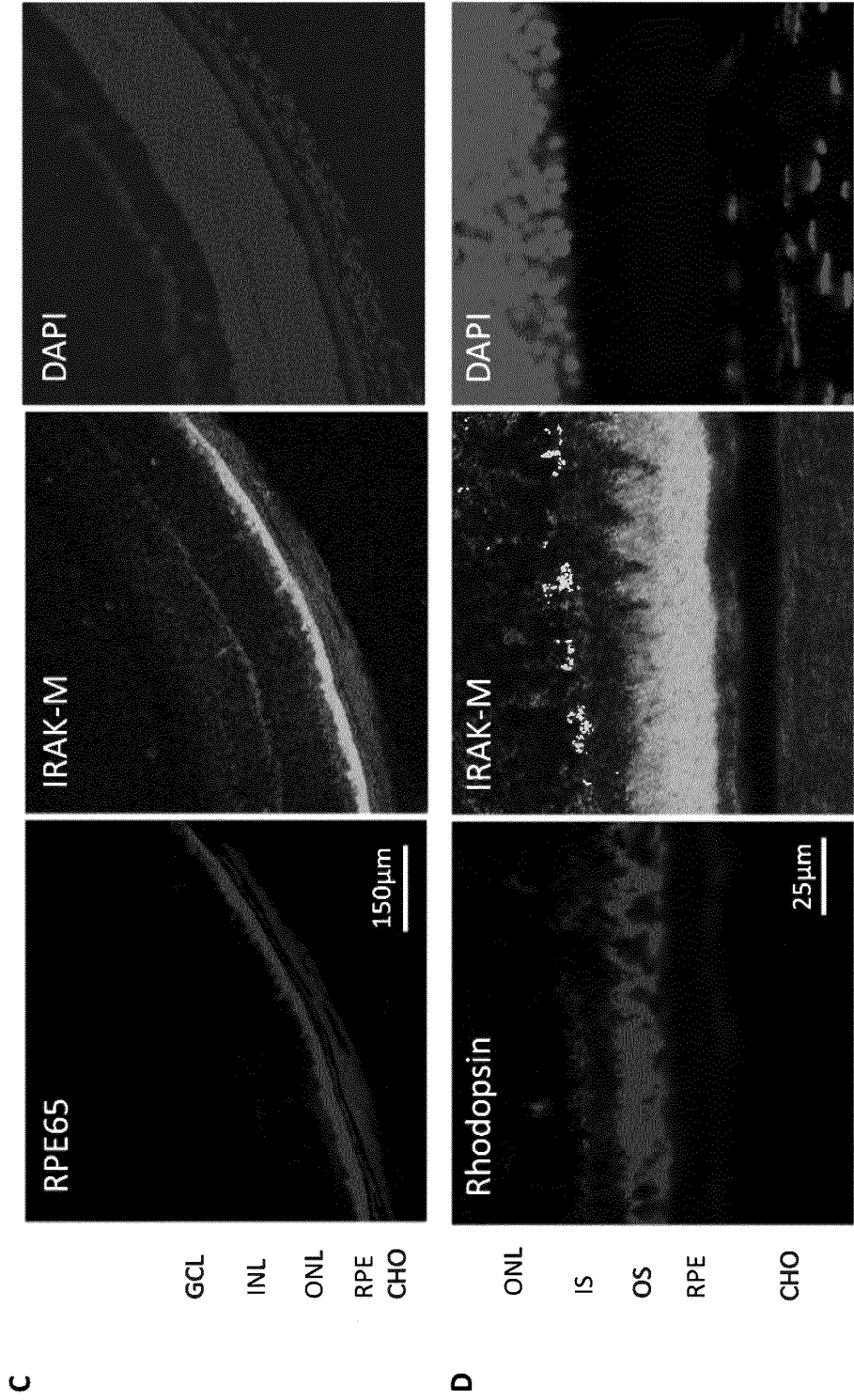


Figure 1 (continued)

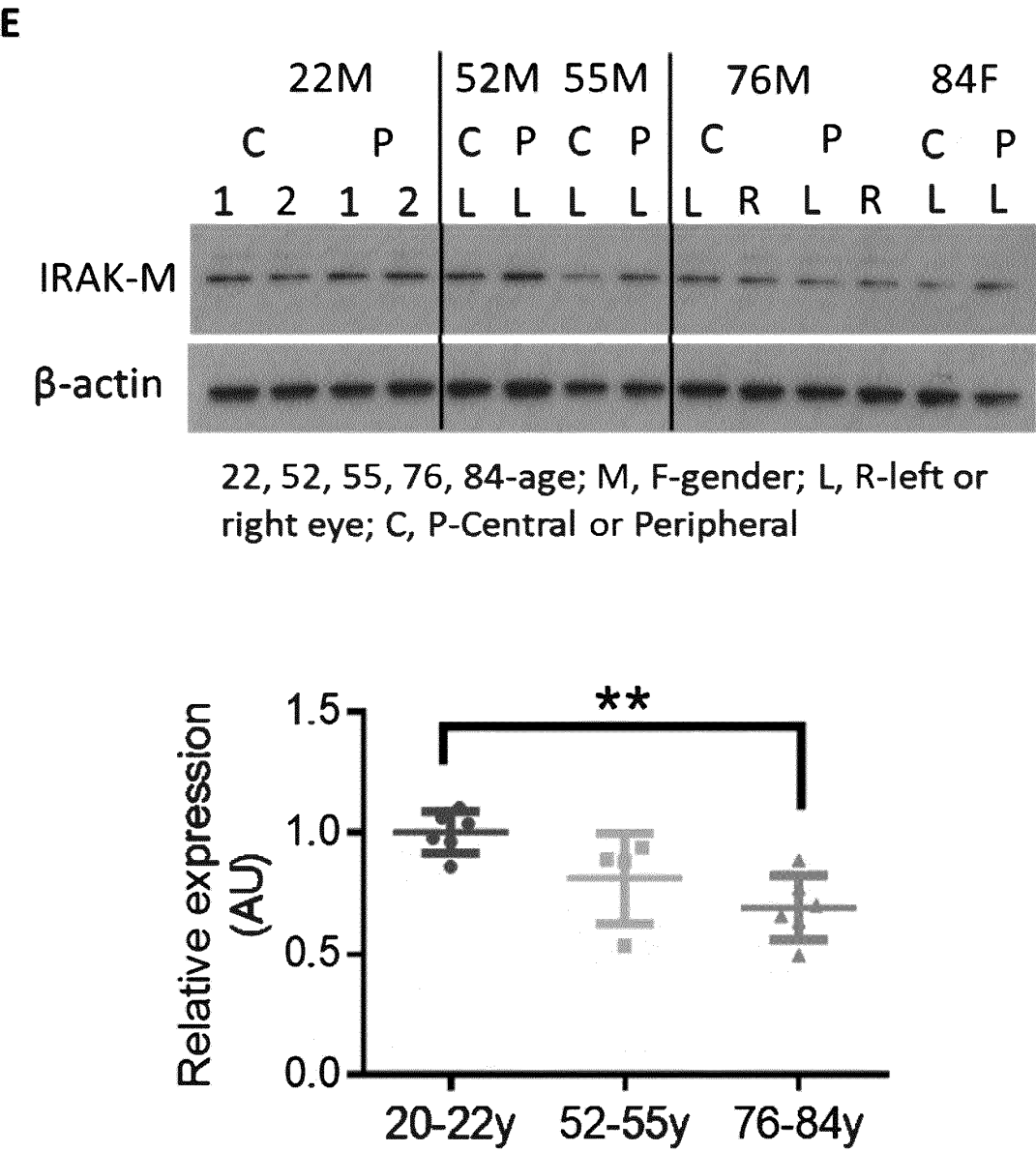


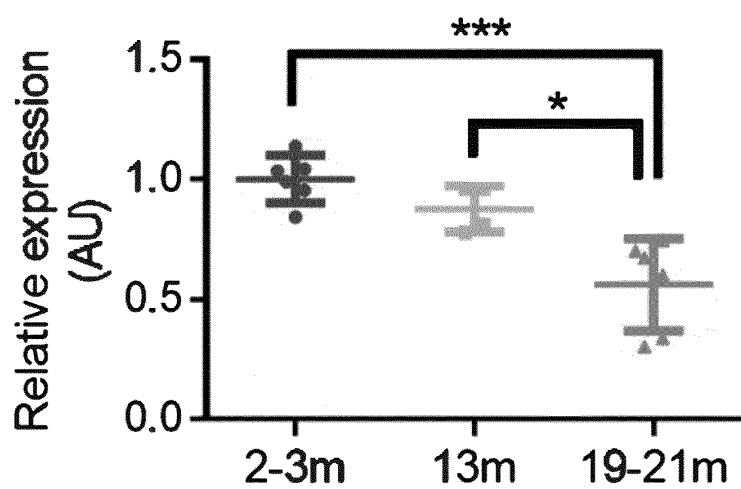
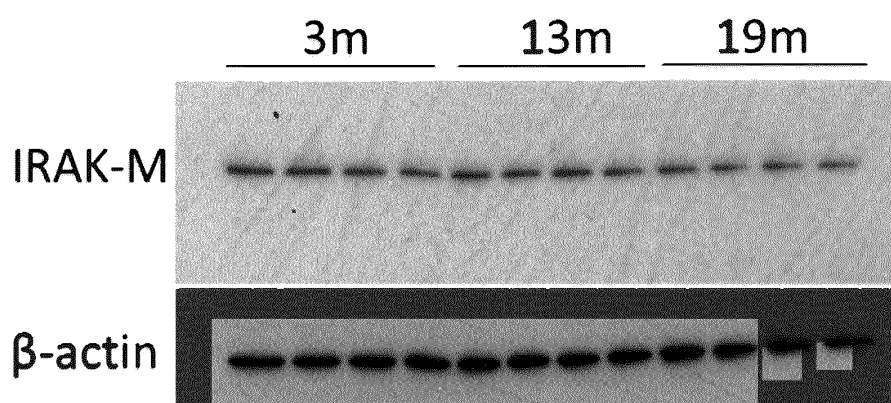
Figure 1 (continued)**F**

Figure 1 (continued)

G

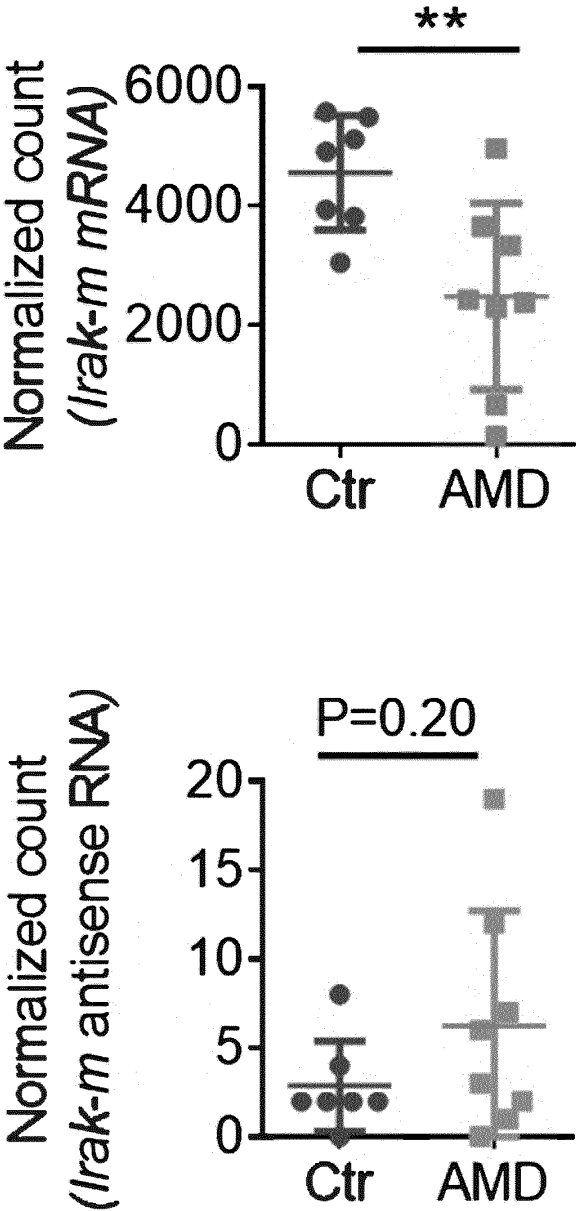


Figure 2

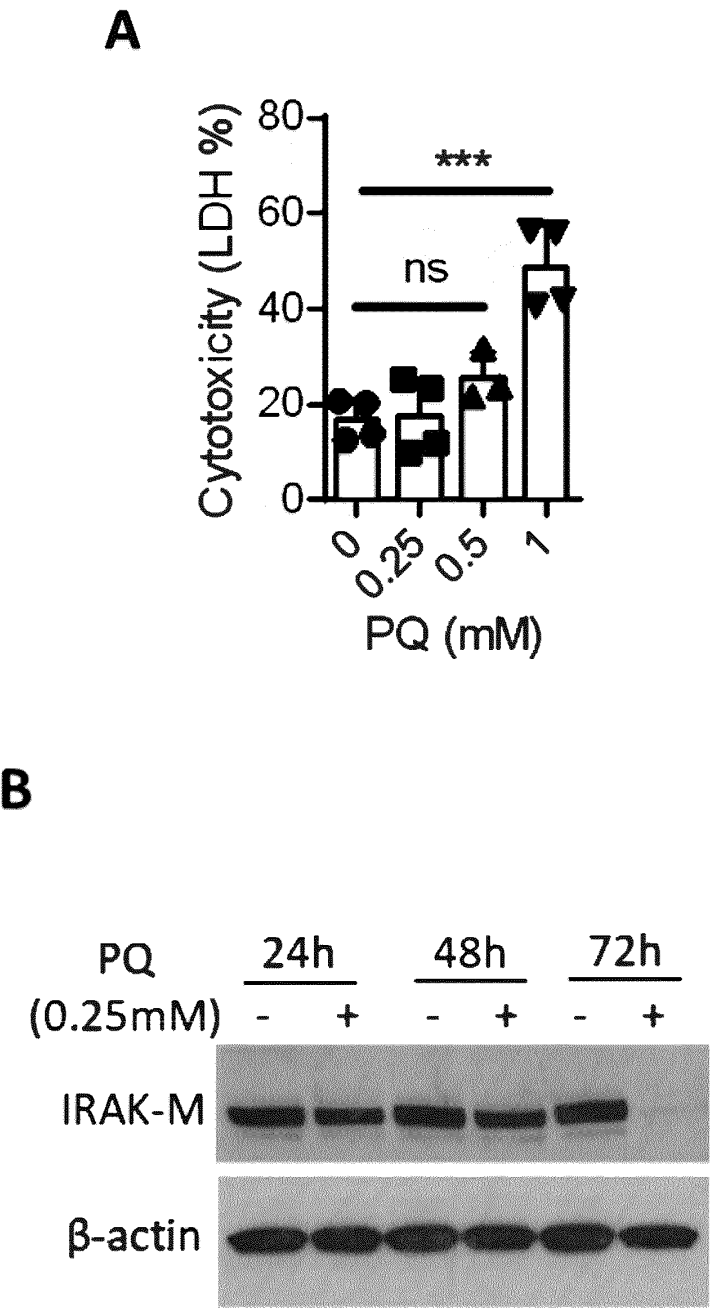


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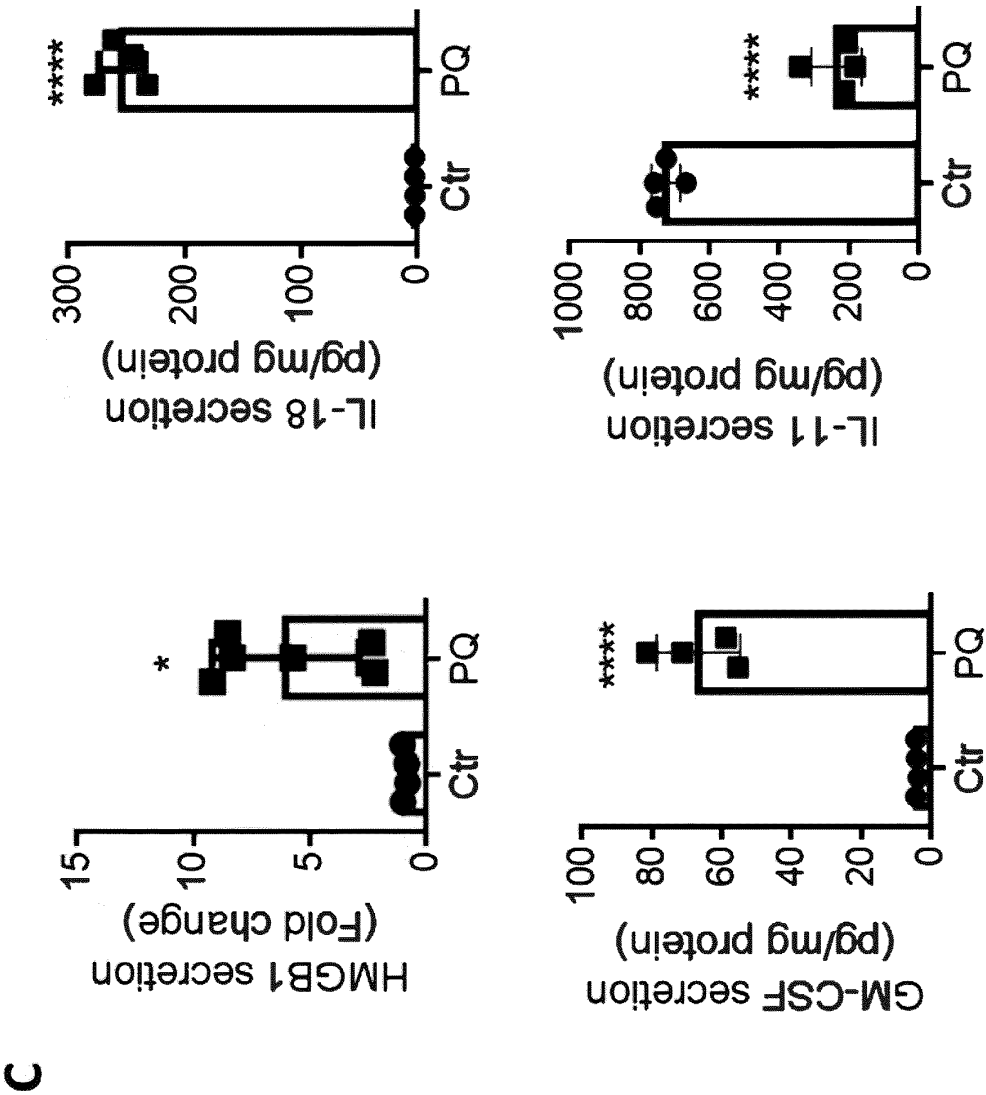


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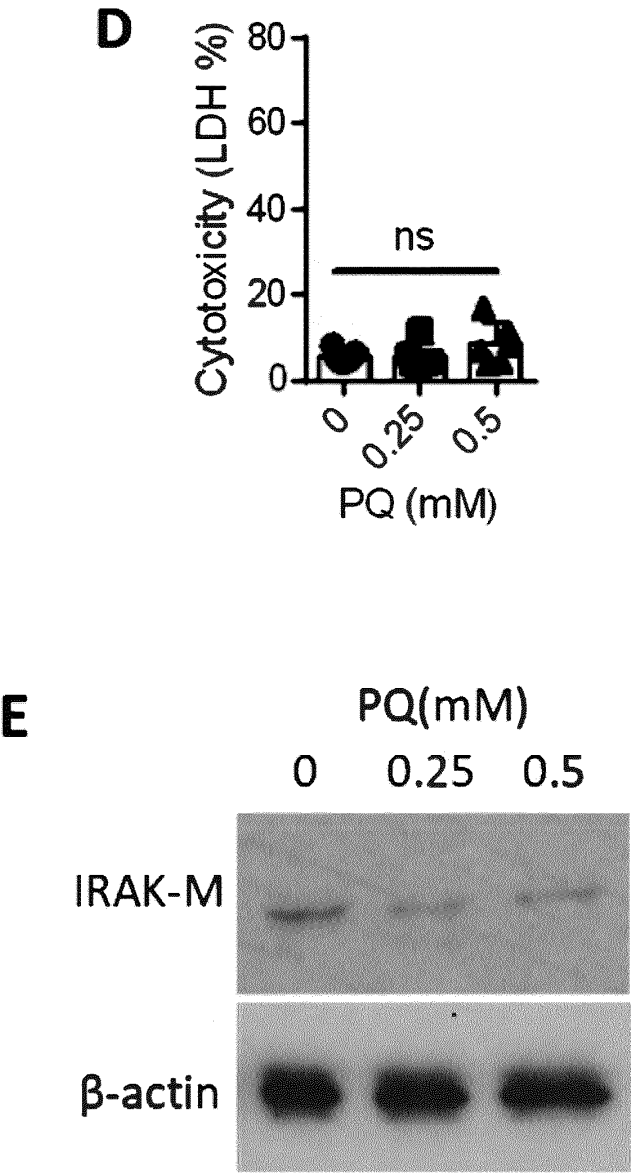


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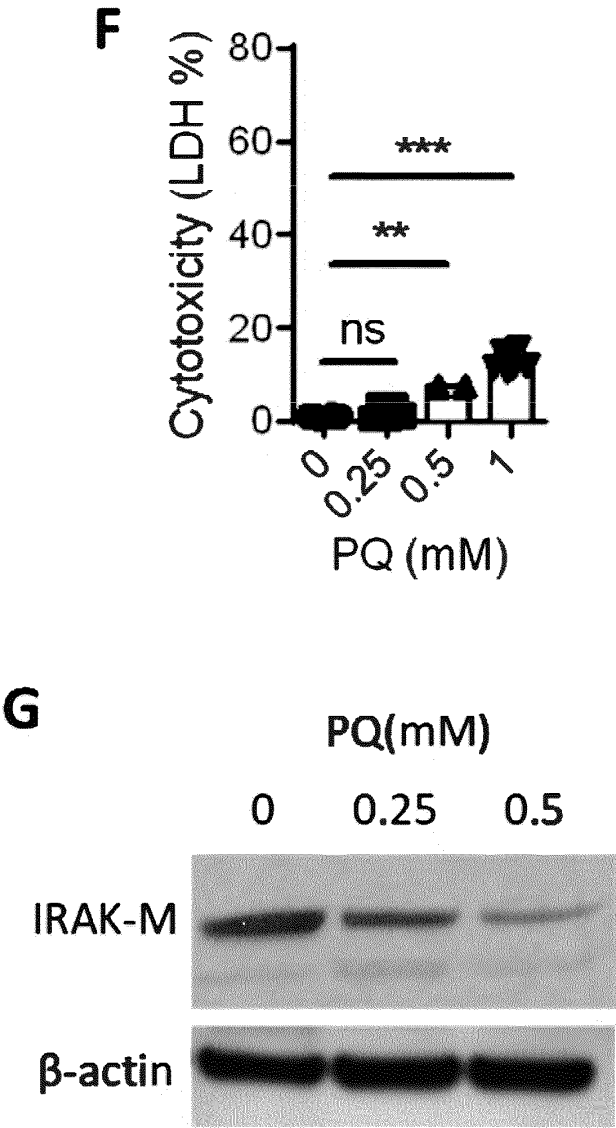


Figure 3

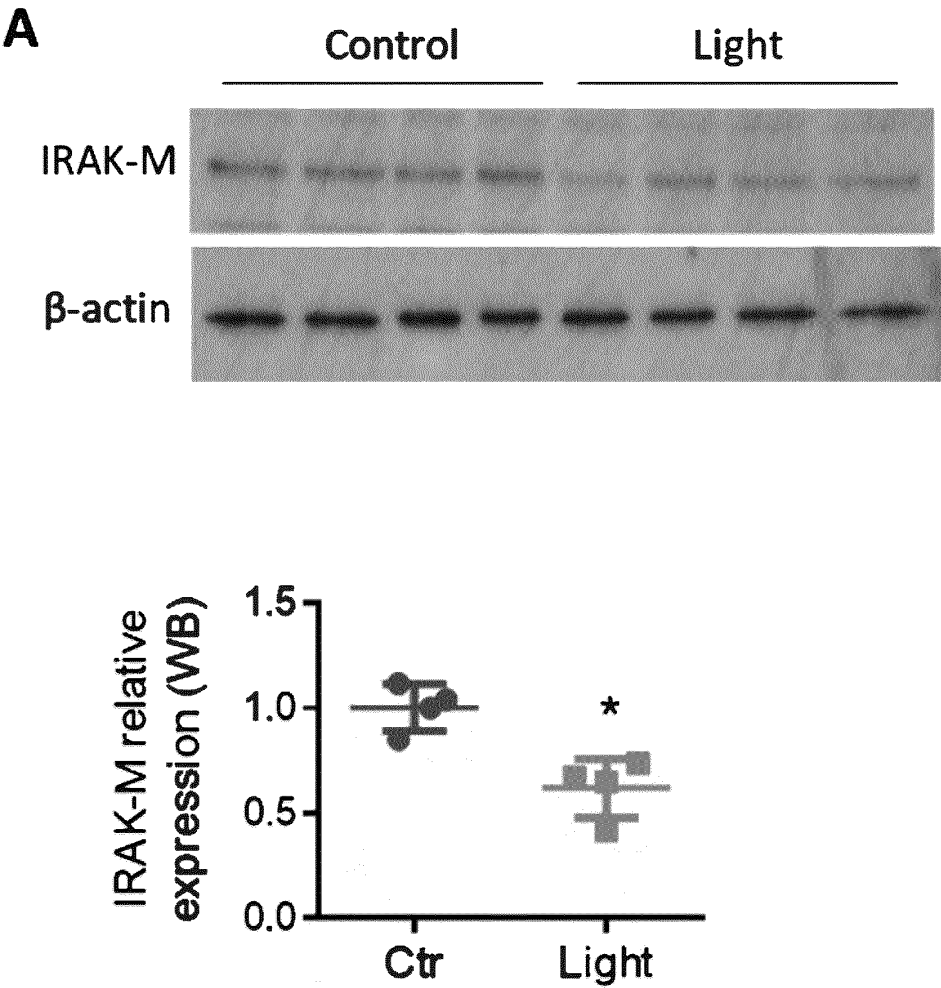
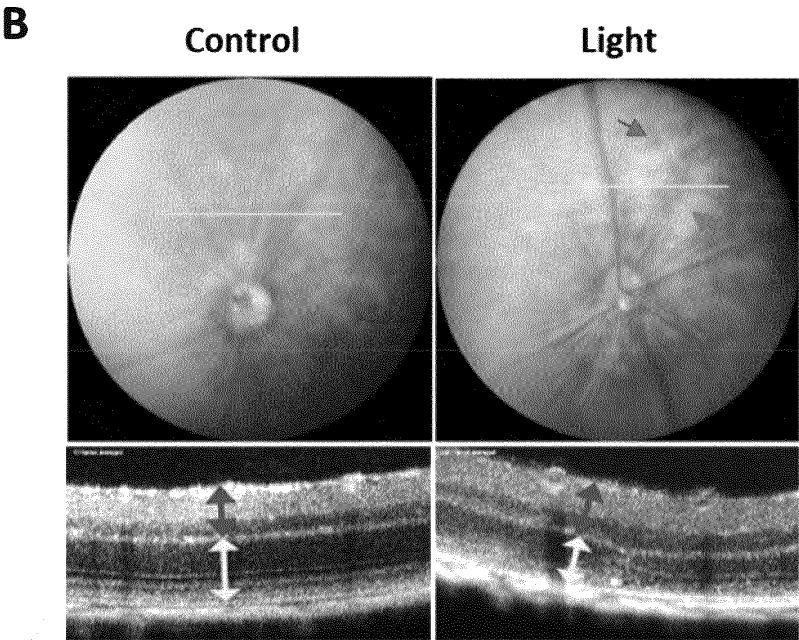


Figure 3 (continued)



C

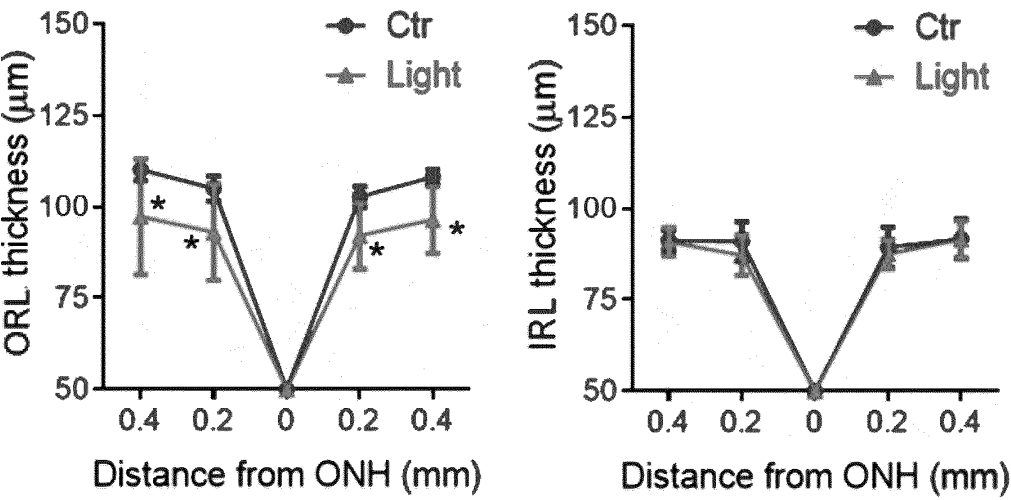


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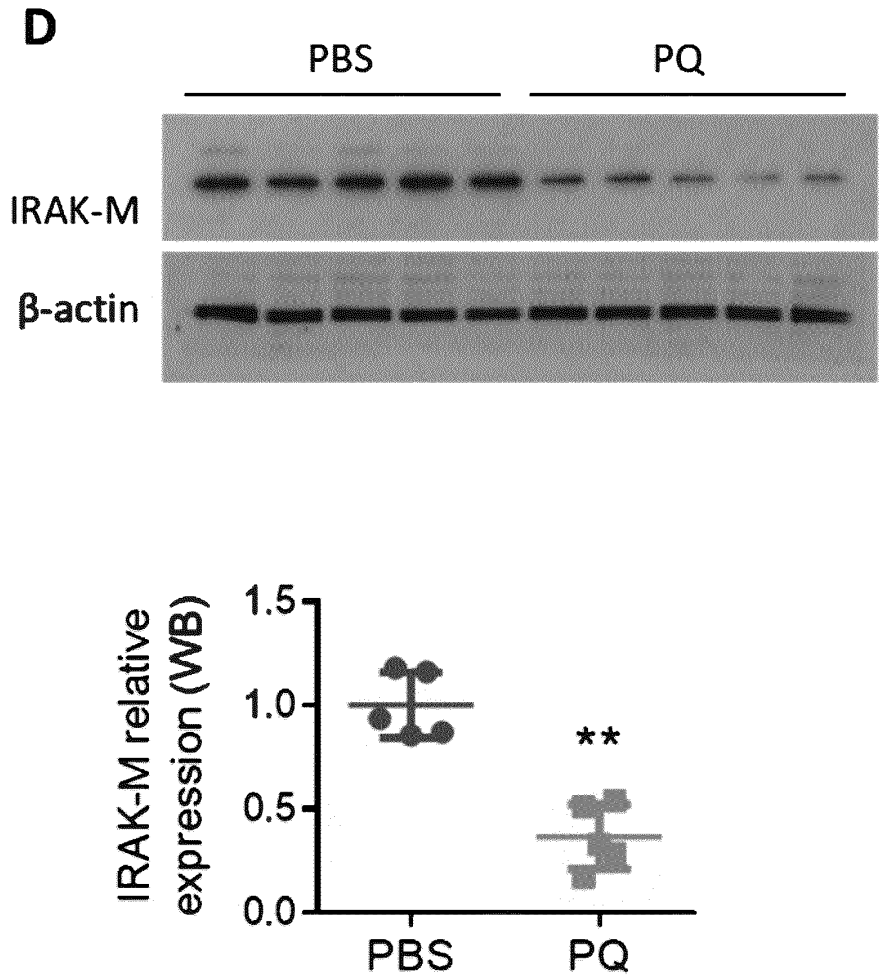


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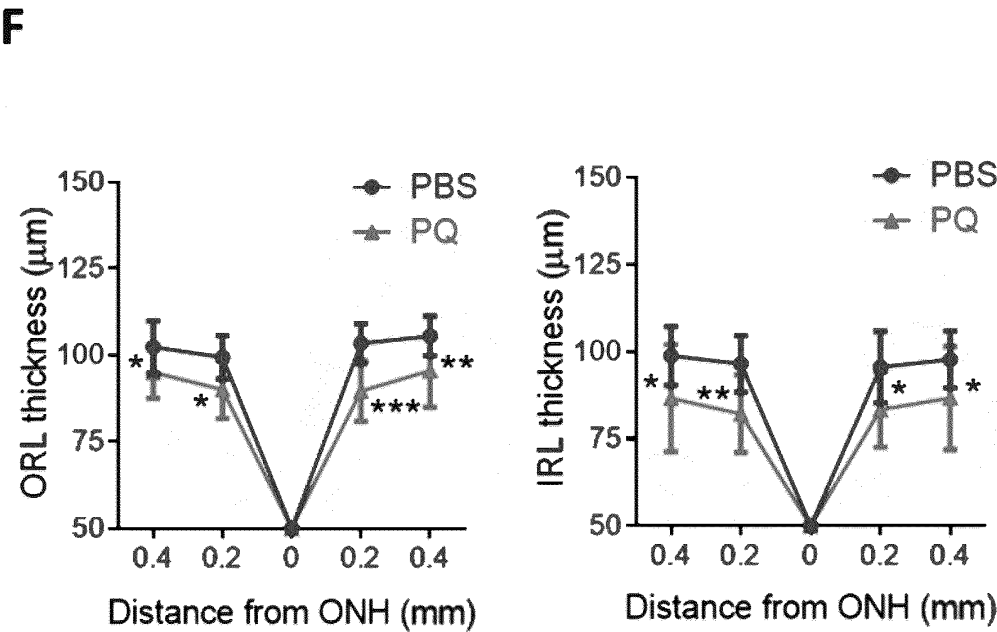
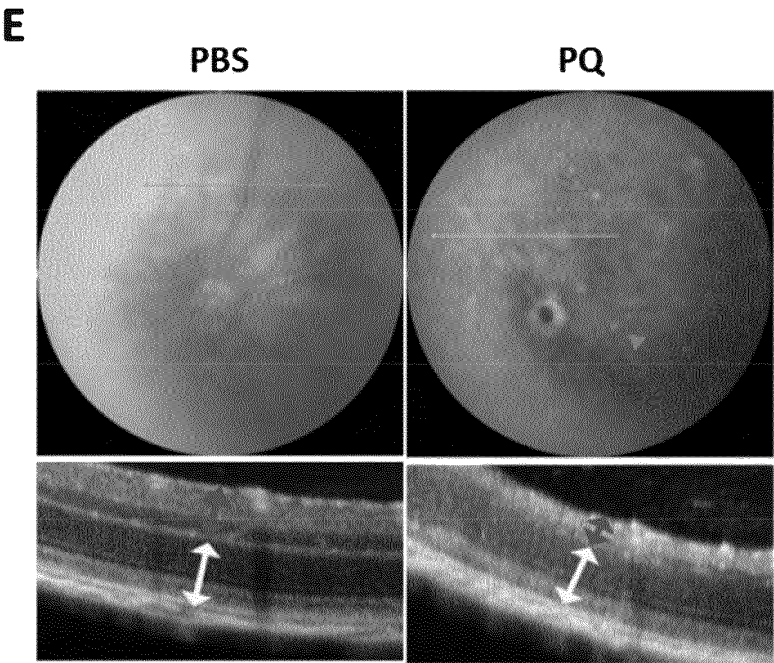


Figure 4

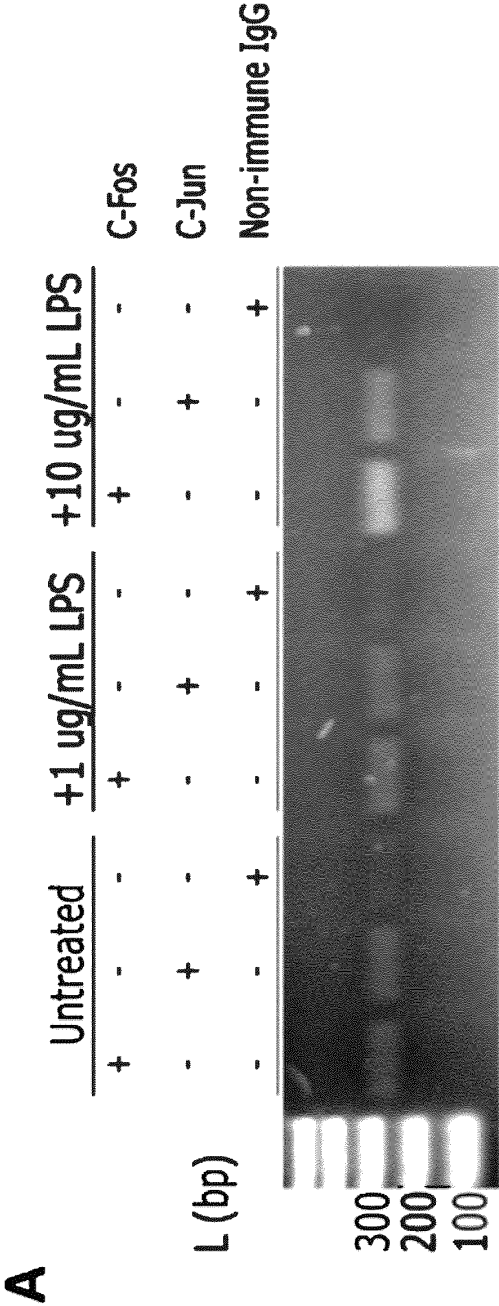


Figure 4 (continued)

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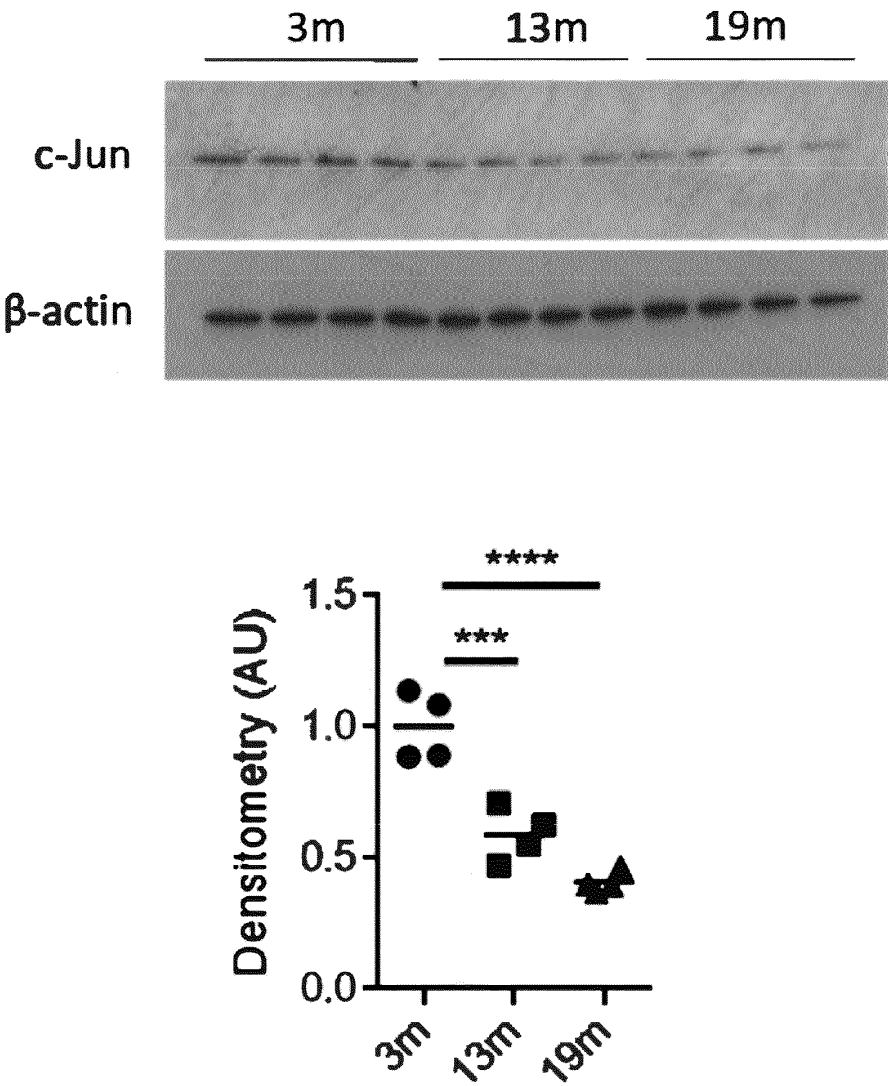
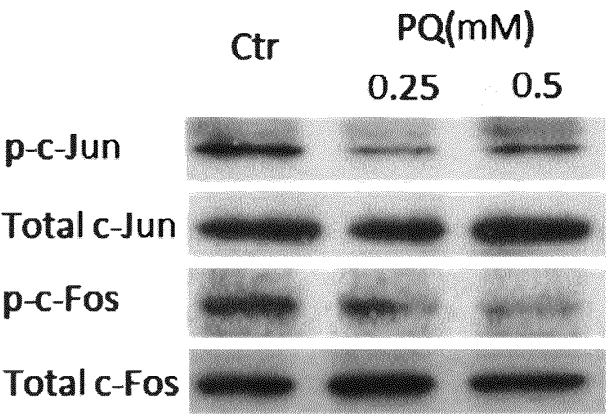


Figure 4 (continued)

C



D

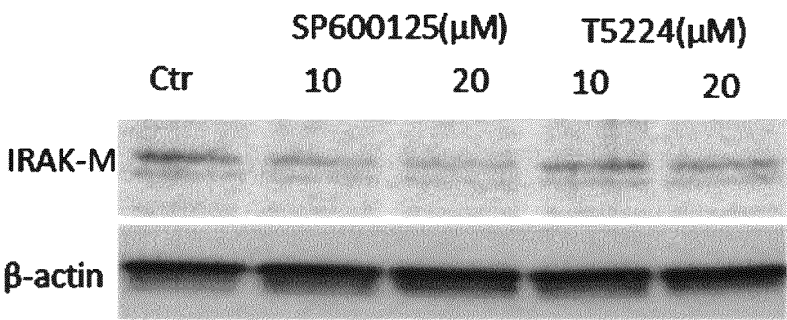


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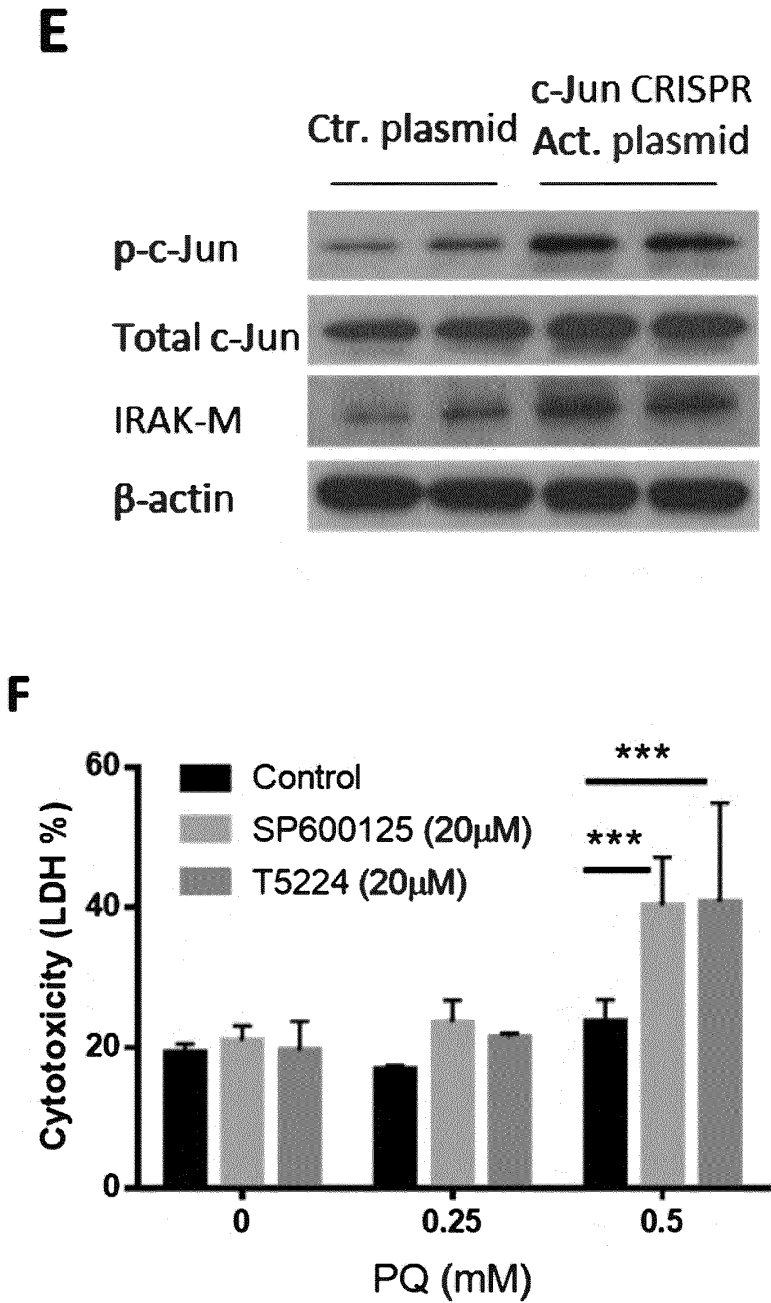


Figure 4 (continued)

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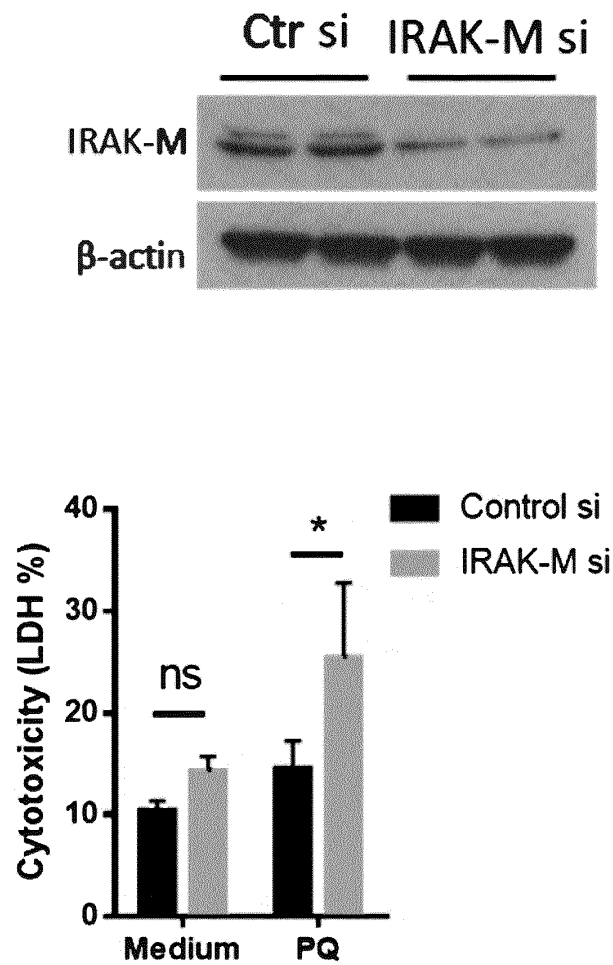


Figure 5

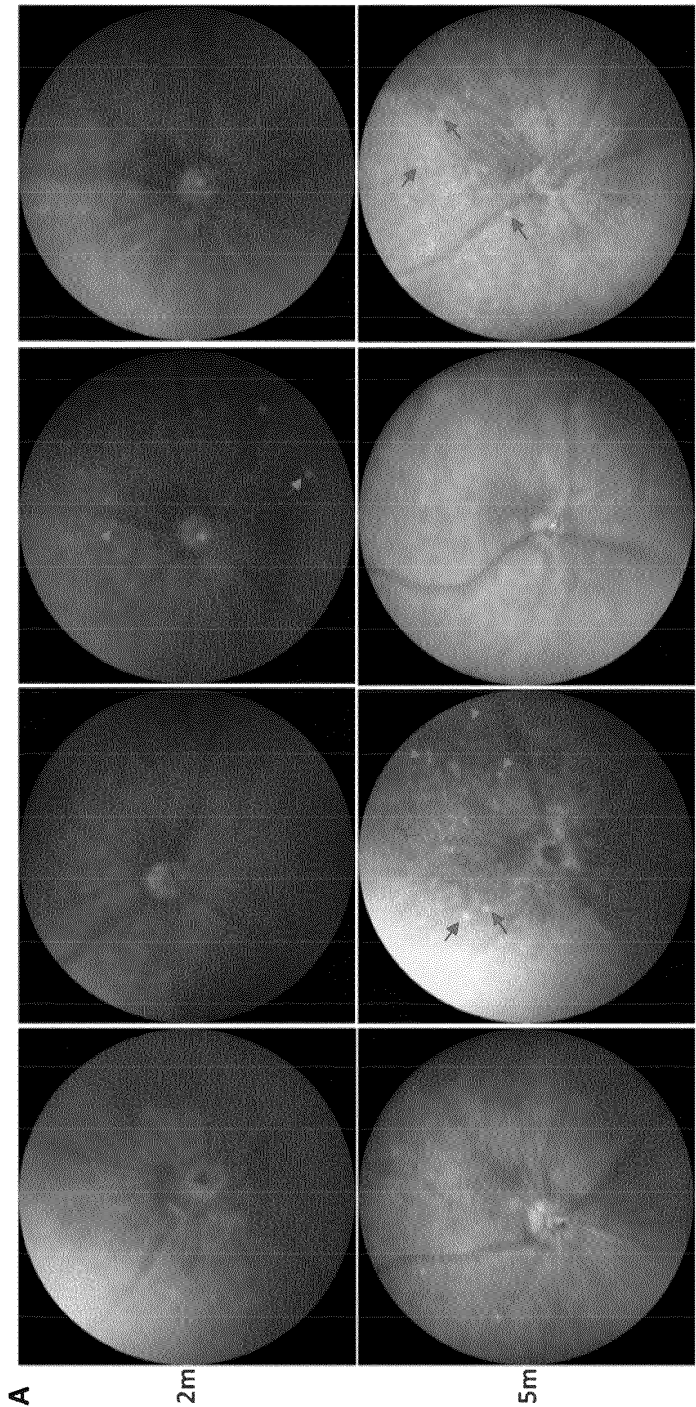


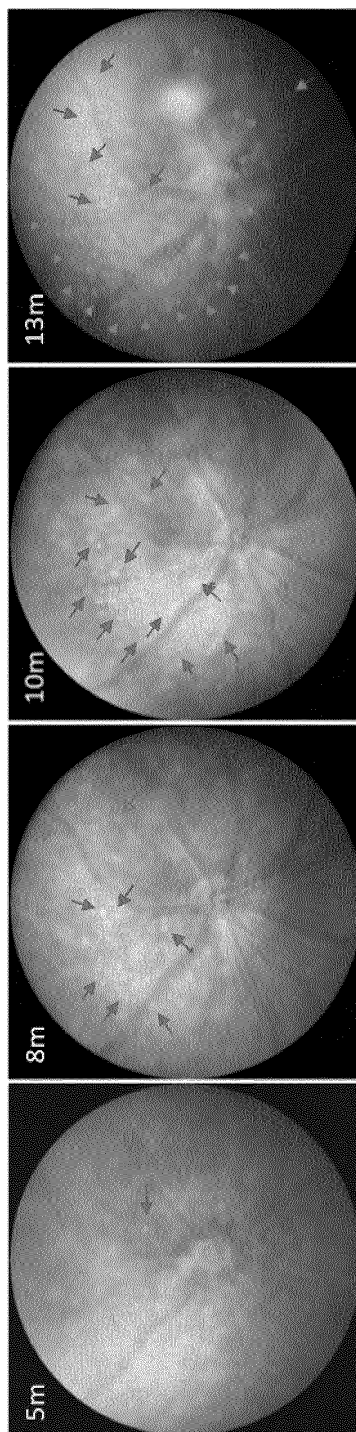
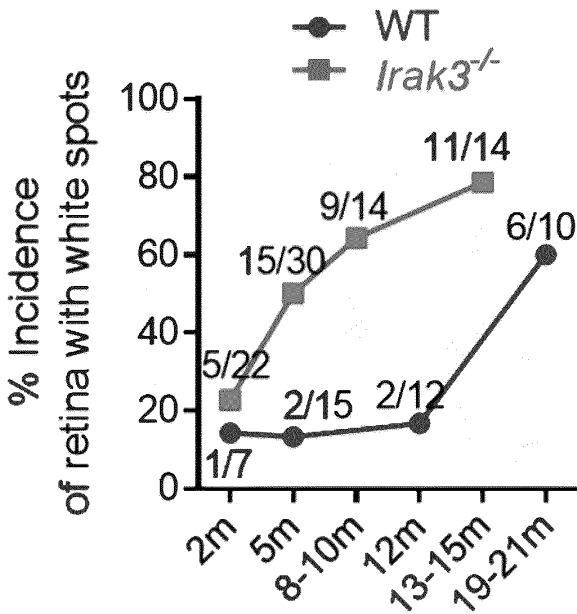
Figure 5 (continued)**B**

Figure 5 (continued)

C



D

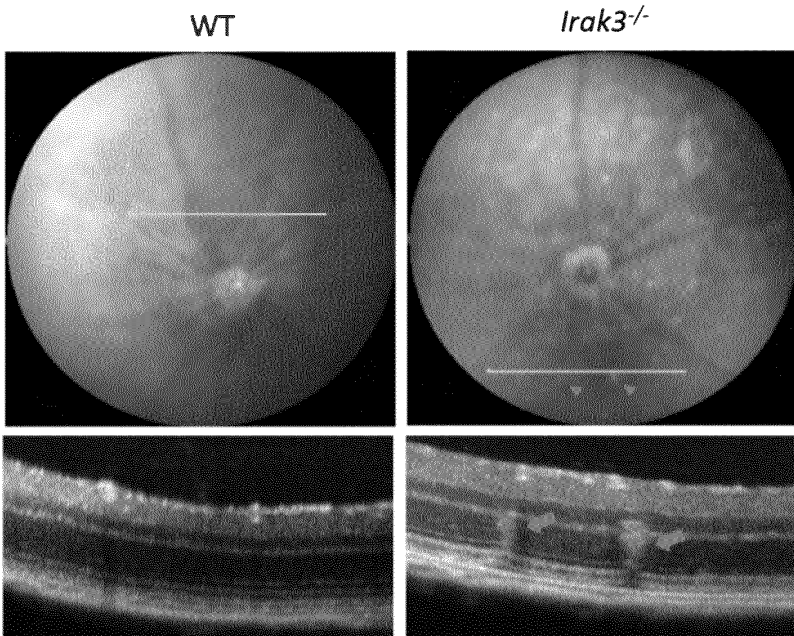


Figure 6

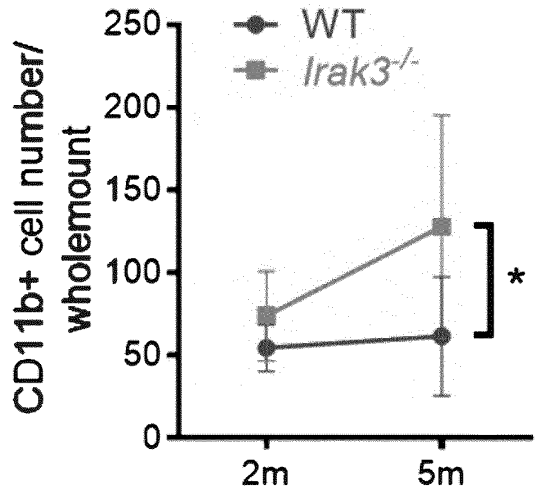
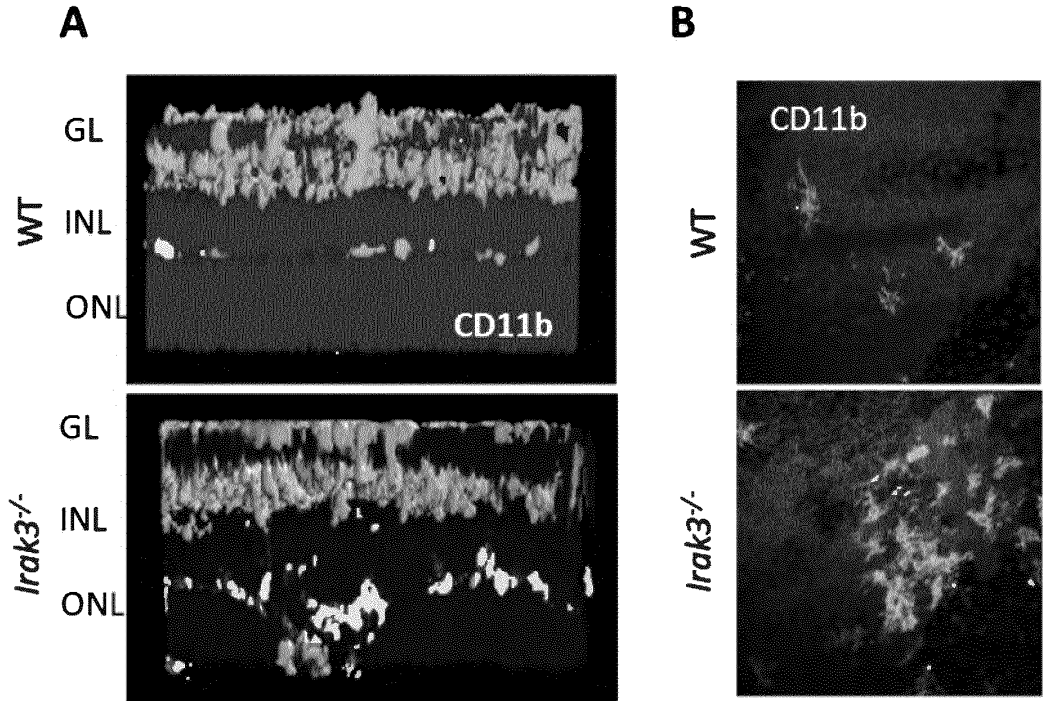


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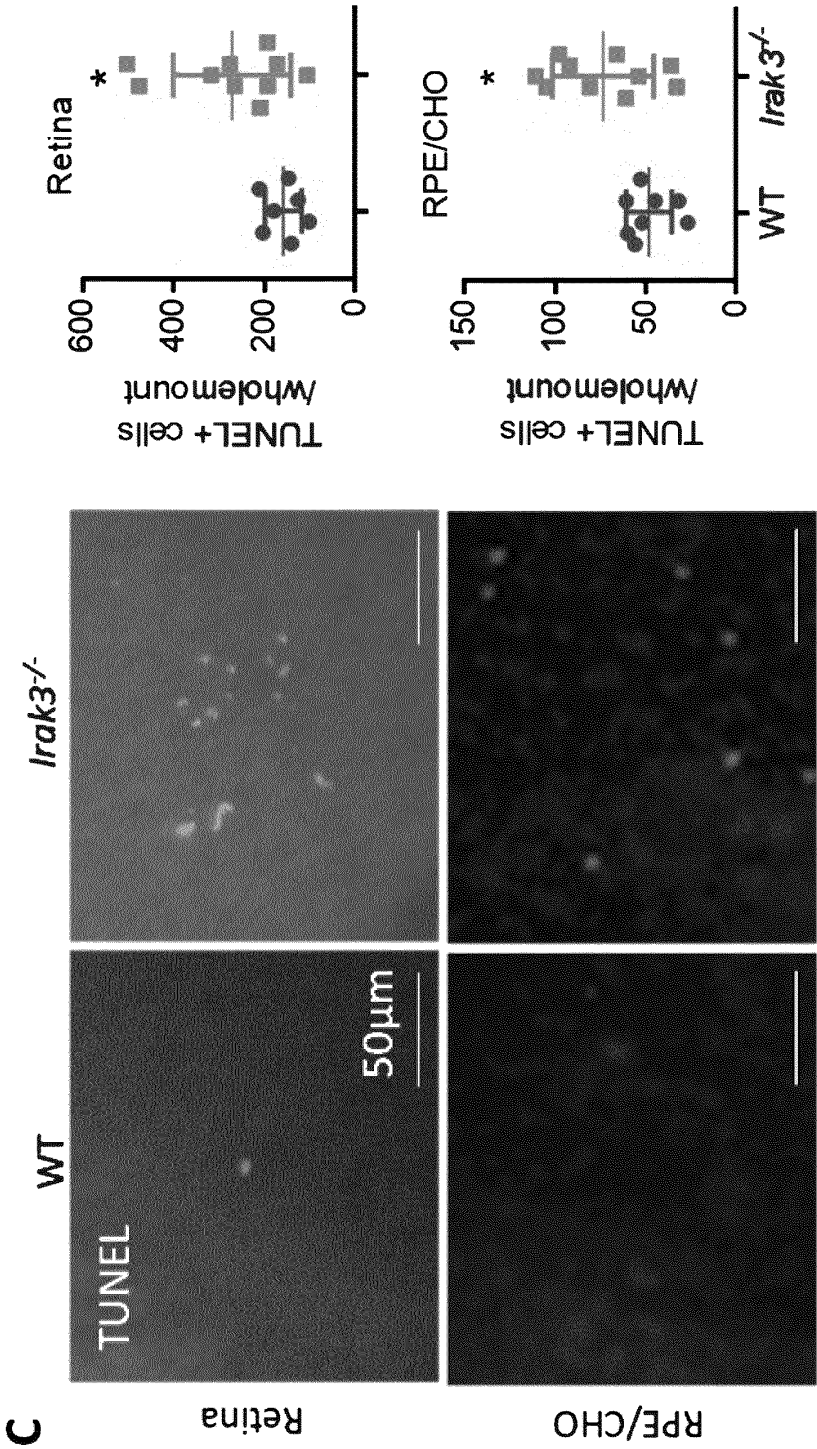


Figure 6 (continued)

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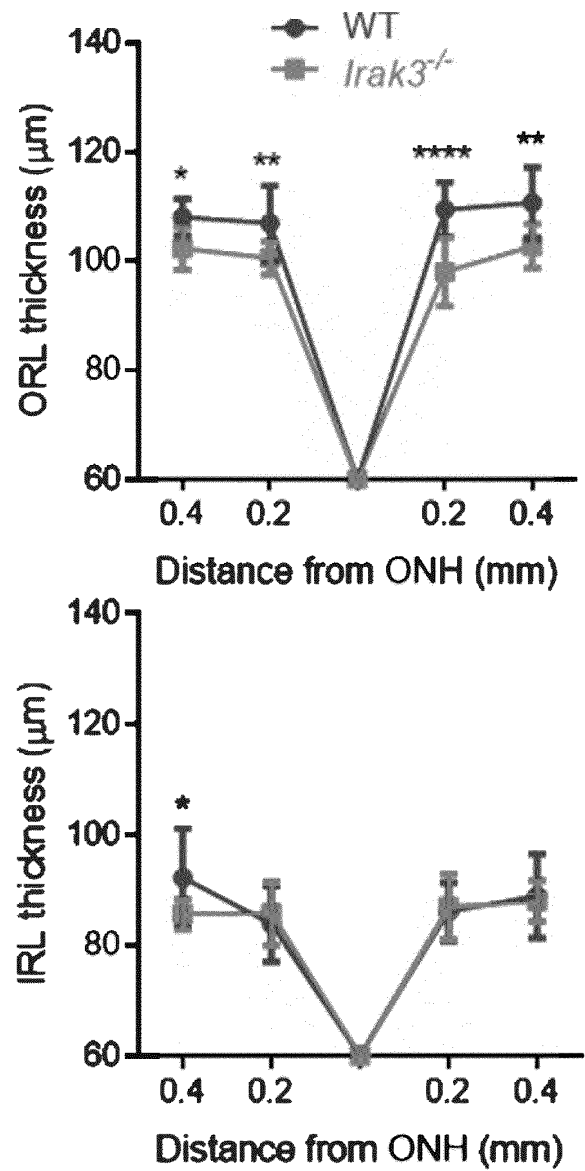


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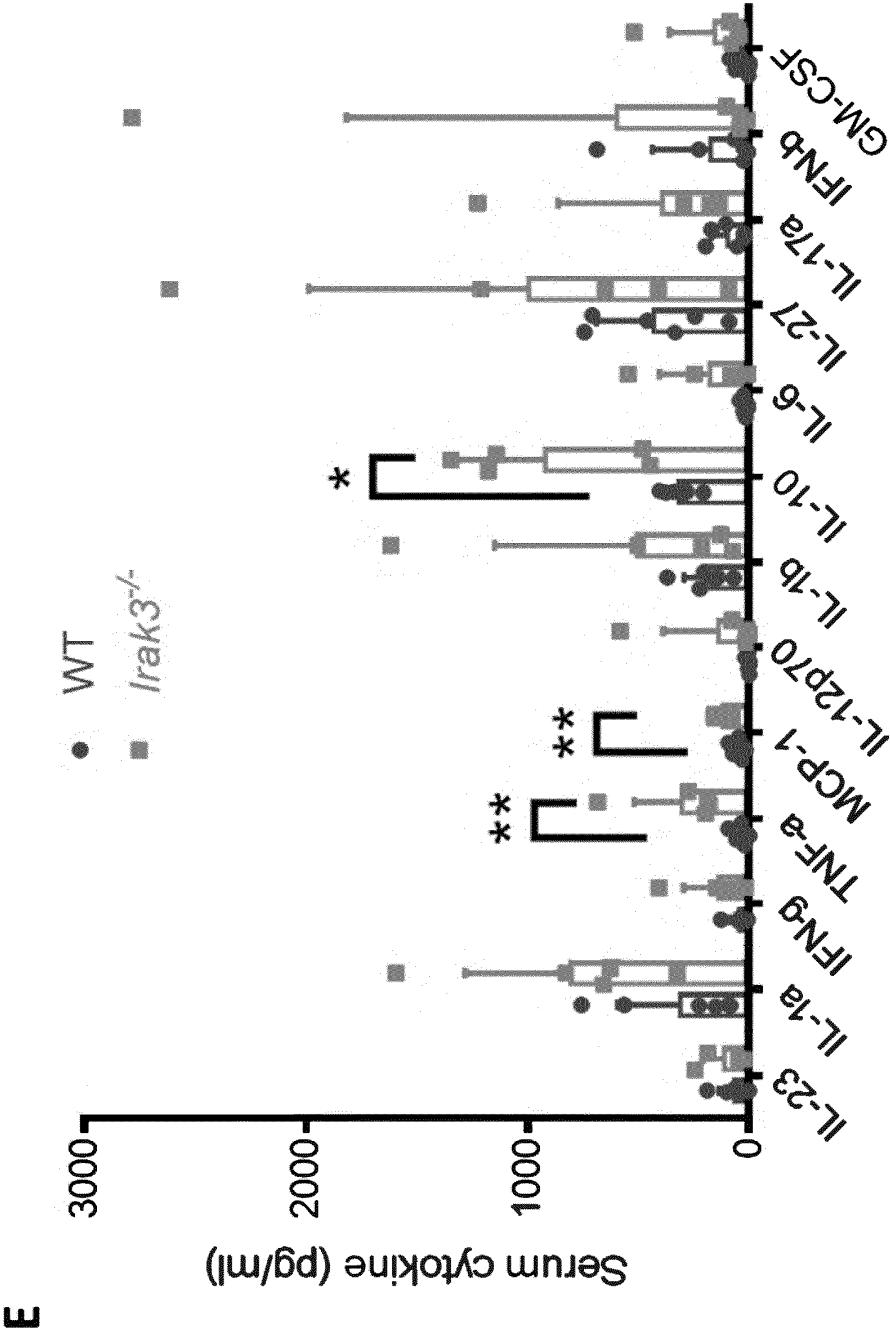


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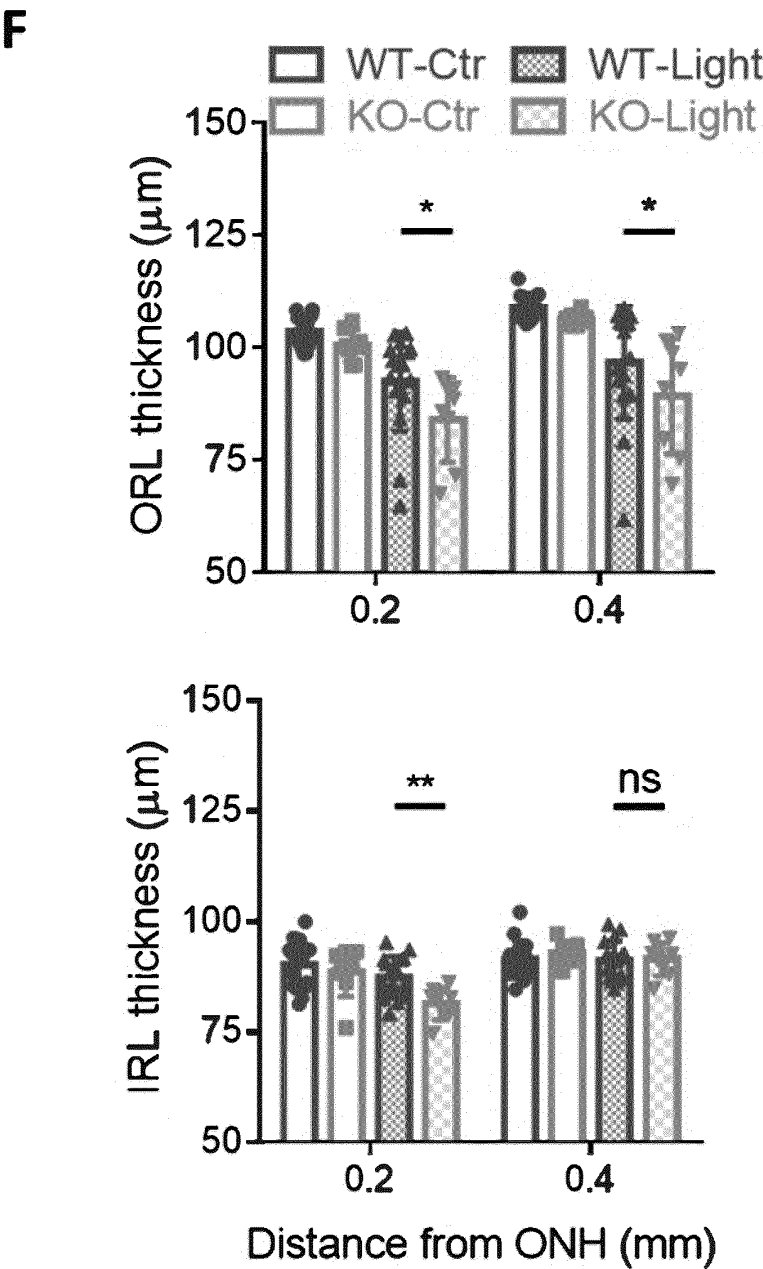


Figure 6 (continued)

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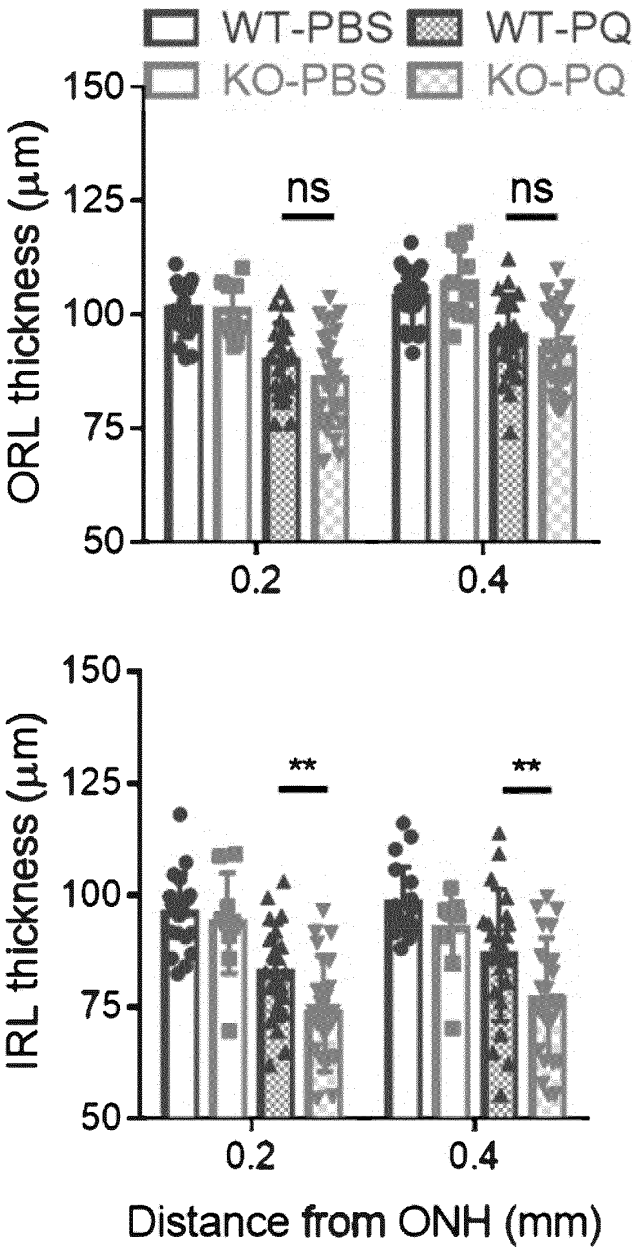


Figure 7

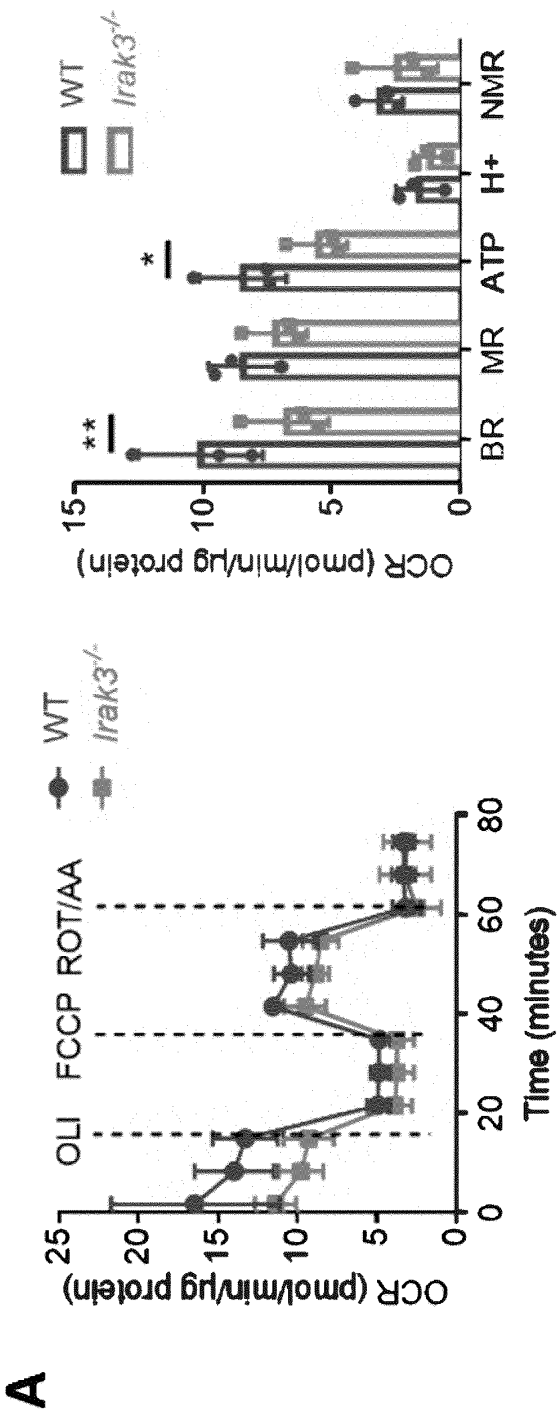


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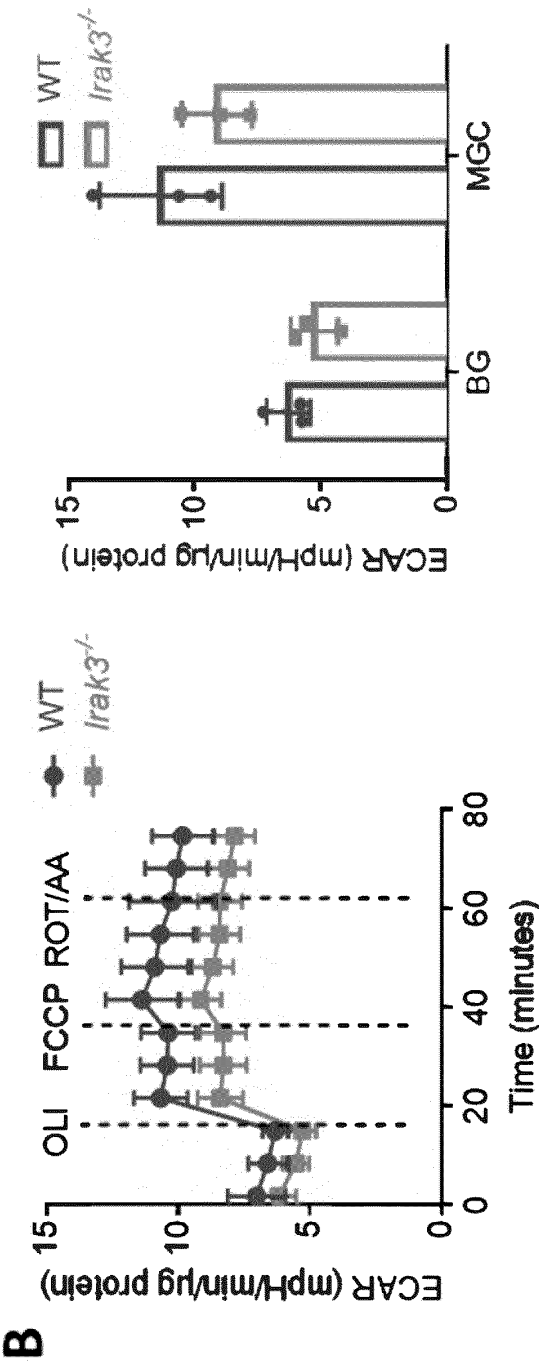
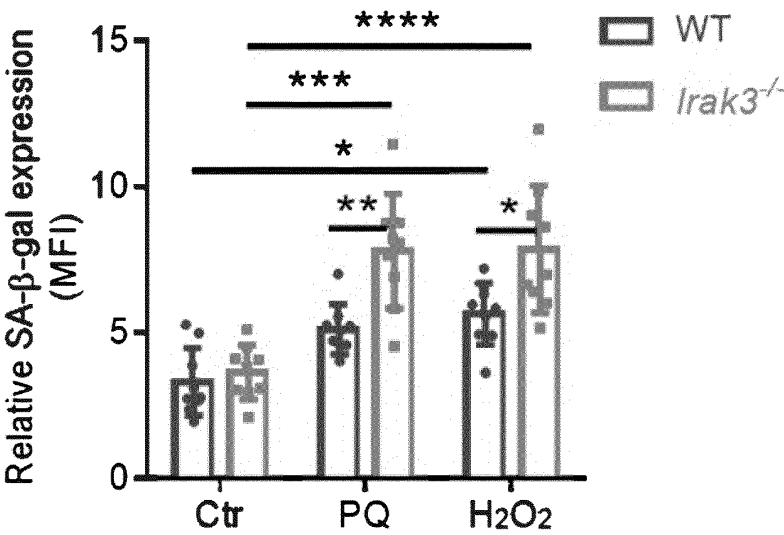


Figure 7 (continued)

C



D

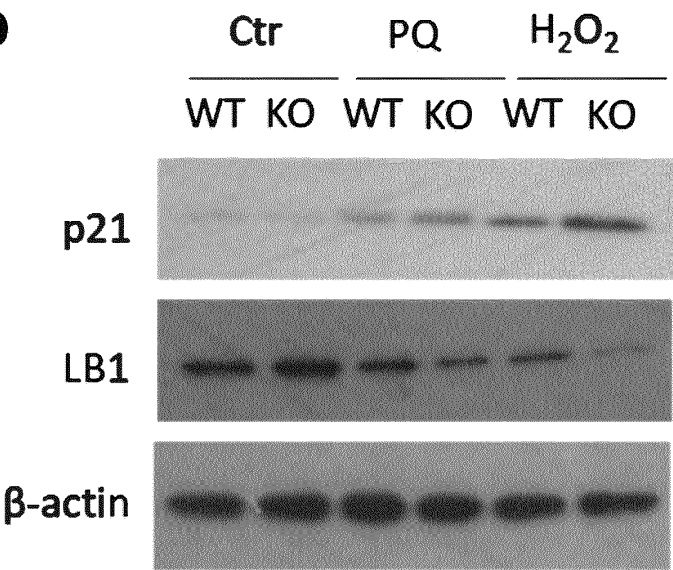
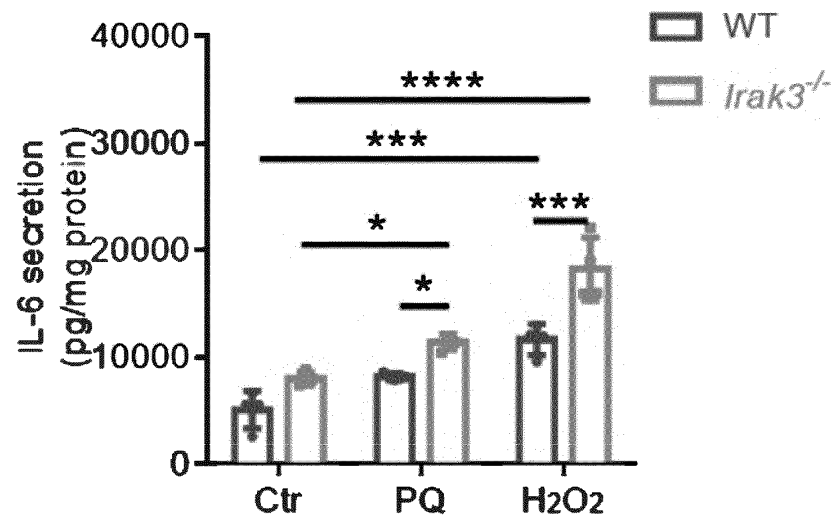


Figure 7 (continued)

E



F

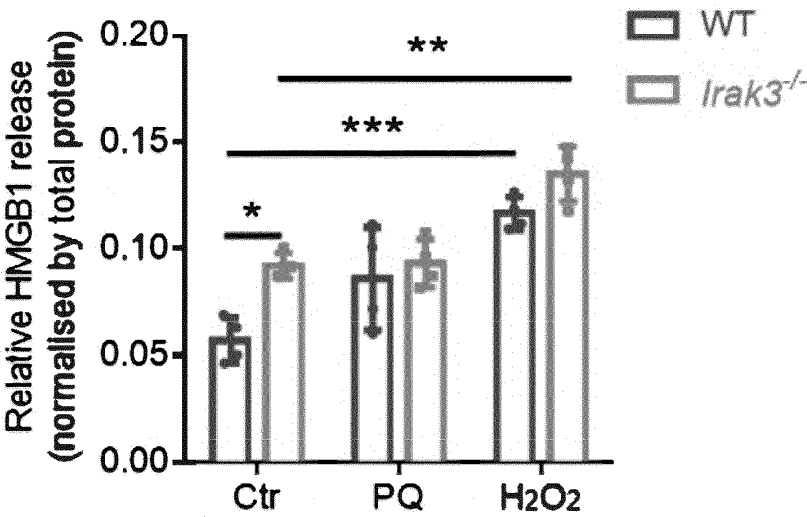


Figure 8

A

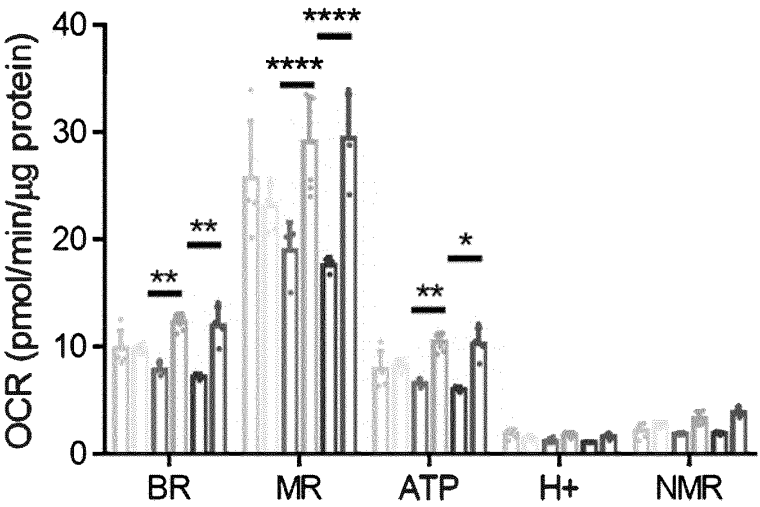
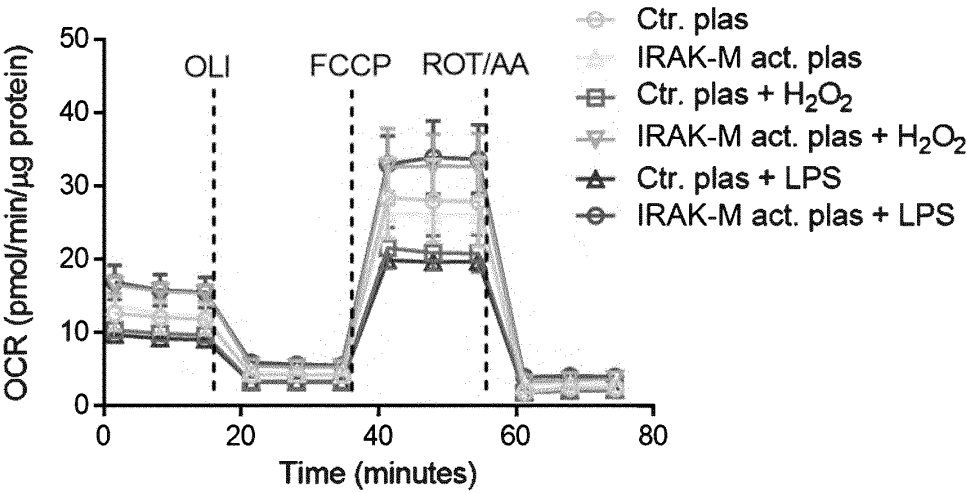


Figure 8 (continued)

B

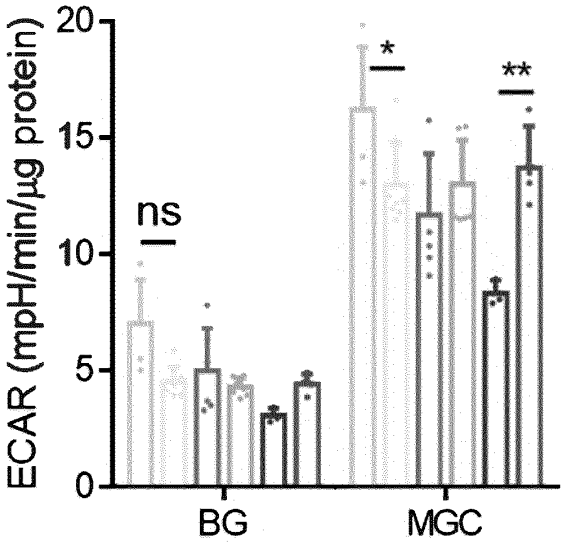
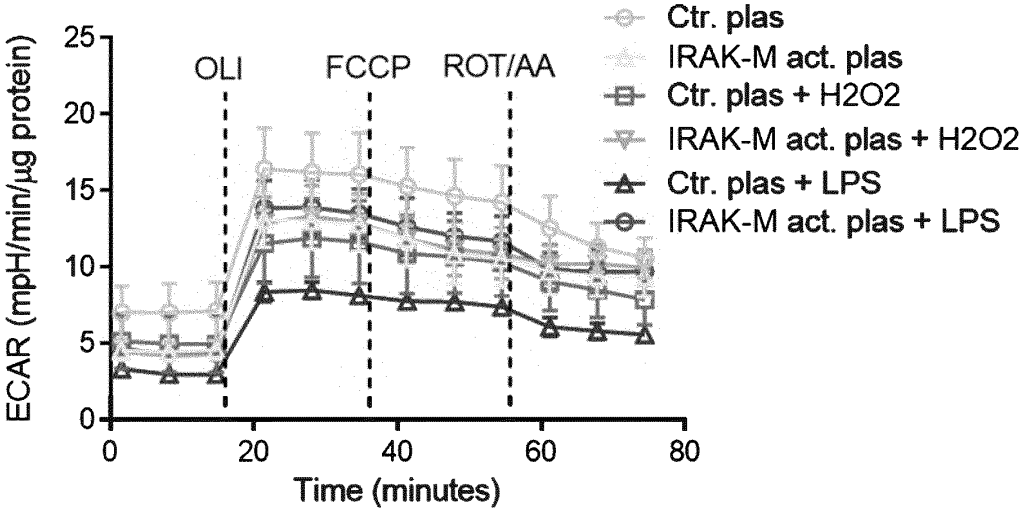
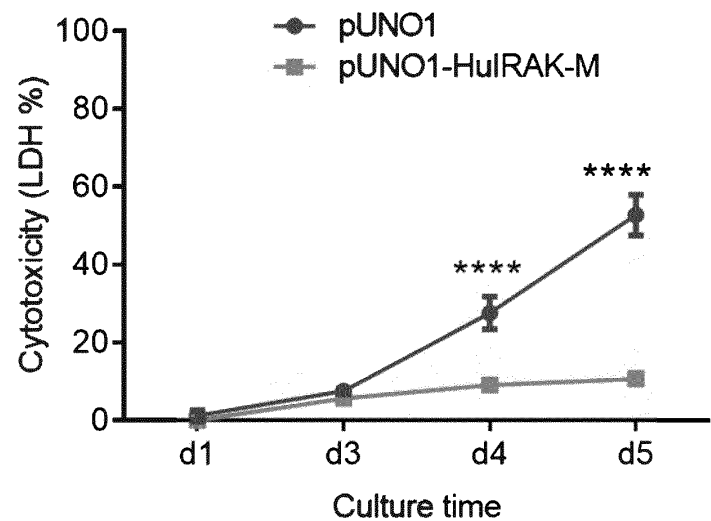


Figure 8 (continued)

C



D

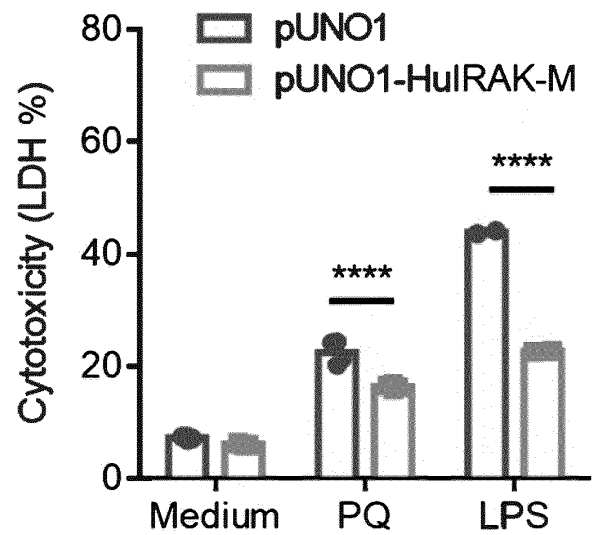


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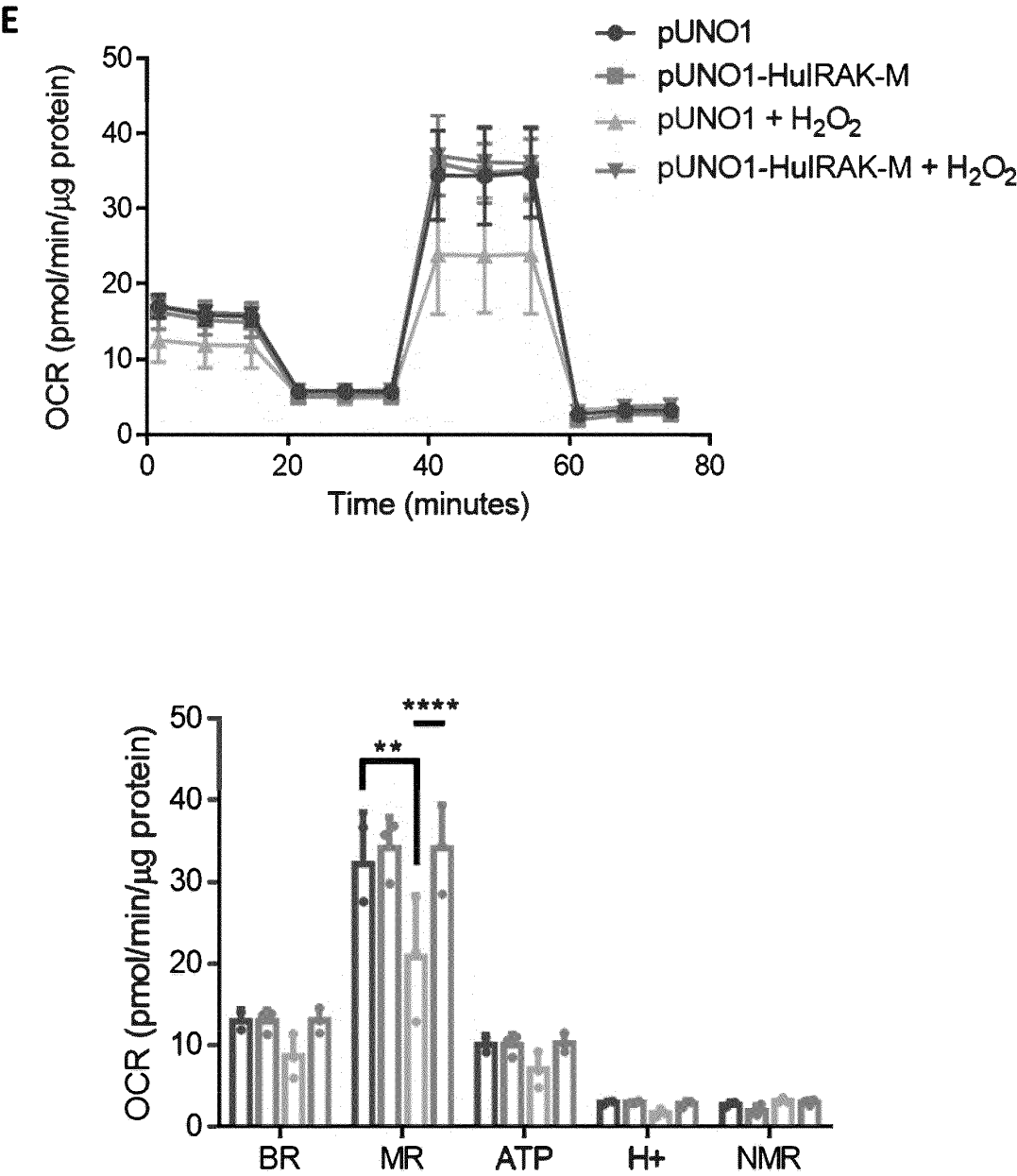


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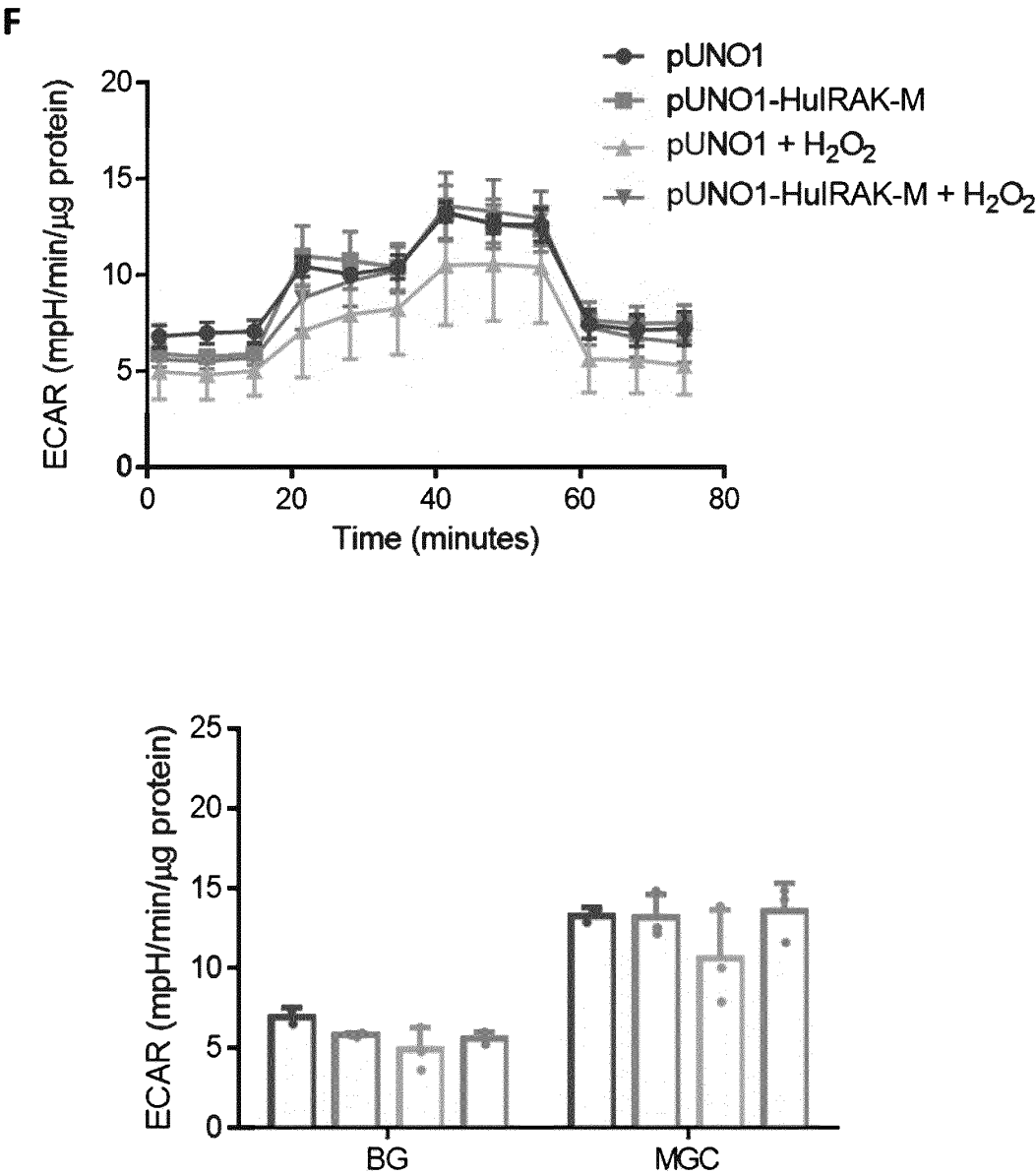


Figure 8 (continued)

G

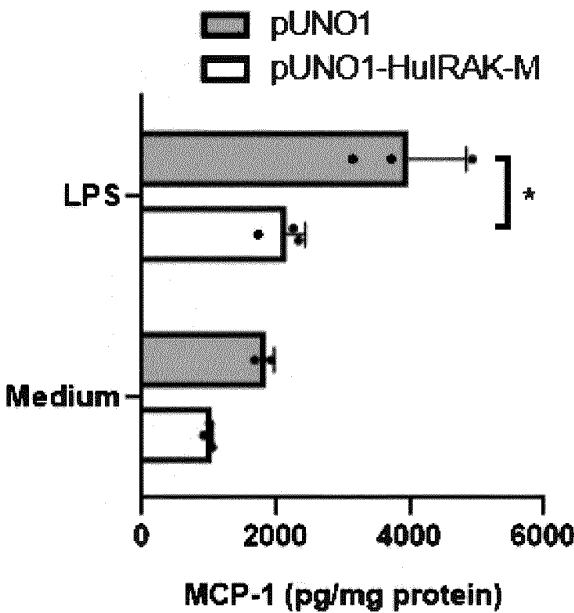
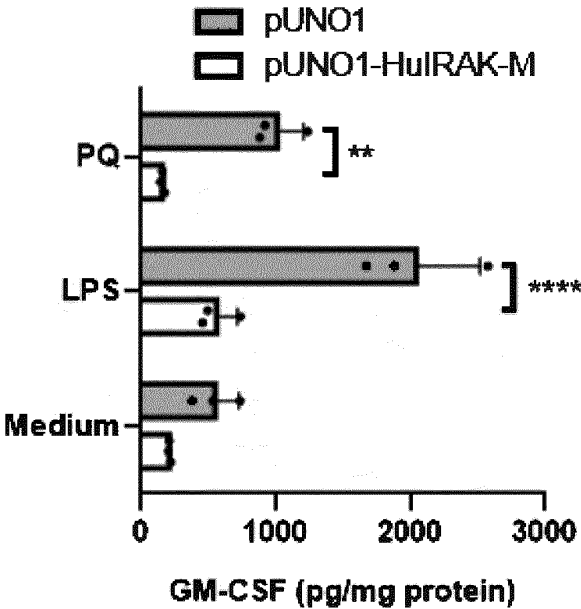


Figure 9

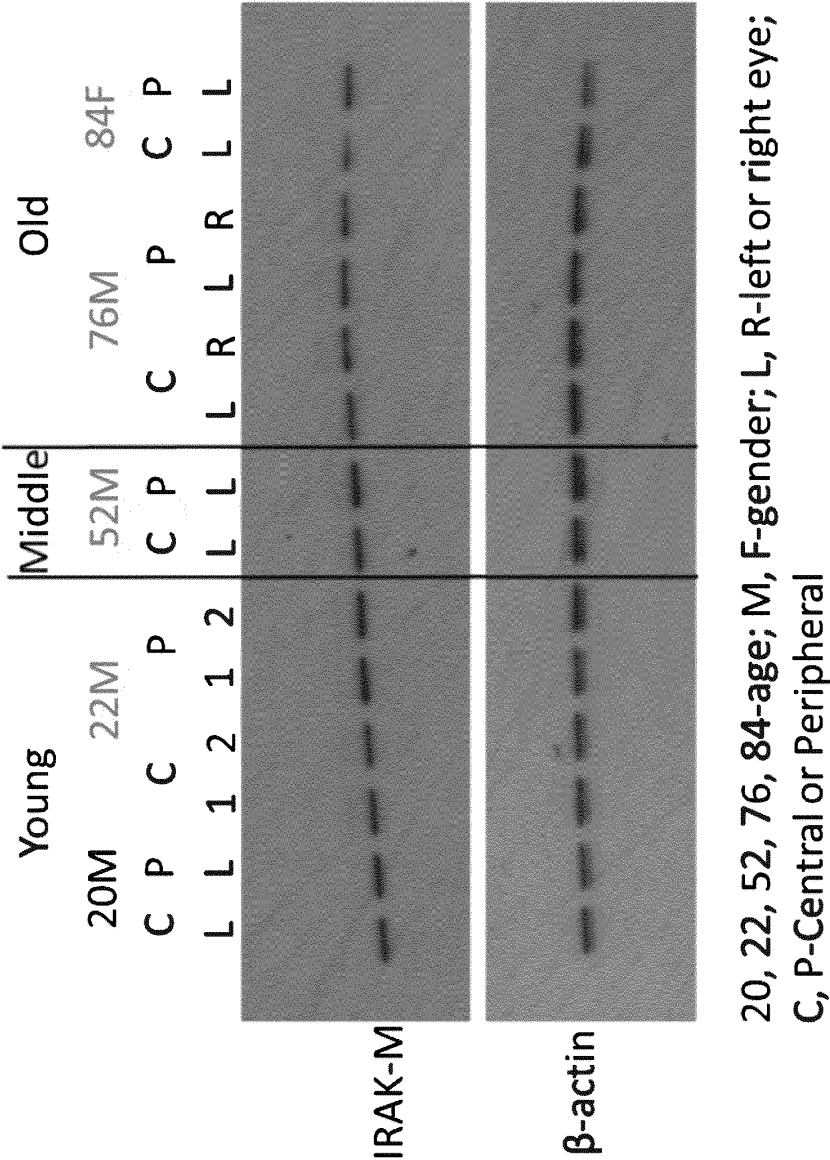


Figure 10

- A
- Downregulated mRNA
- GO:0042110: T cell activation
 - GO:0002366: leukocyte activation involved in immune response
 - GO:0001817: regulation of cytokine production
 - GO:0002703: regulation of leukocyte mediated immunity
 - GO:0050866: negative regulation of cell activation
 - R-HSA-1280215: Cytokine Signaling in Immune system
 - GO:0046631: alpha-beta T cell activation
 - GO:0002757: immune response-activating signal transduction
 - GO:0050900: leukocyte migration
 - GO:0001501: skeletal system development
 - GO:0050777: negative regulation of immune response
 - R-HSA-198933: Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell
 - GO:0031349: positive regulation of defense response
 - R-HSA-1474244: Extracellular matrix organization
 - GO:0045576: mast cell activation
 - ko04640: Hematopoietic cell lineage
 - GO:0043408: regulation of MAPK cascade
 - GO:0009617: response to bacterium
 - GO:0018108: peptidyl-tyrosine phosphorylation
 - GO:0045058: T cell selection

Figure 10 (continued)

B

Upregulated mRNA

GO:0045653: negative regulation of megakaryocyte differentiation

GO:0000244: spliceosomal tri-snRNP complex assembly

Figure 10 (continued)

C

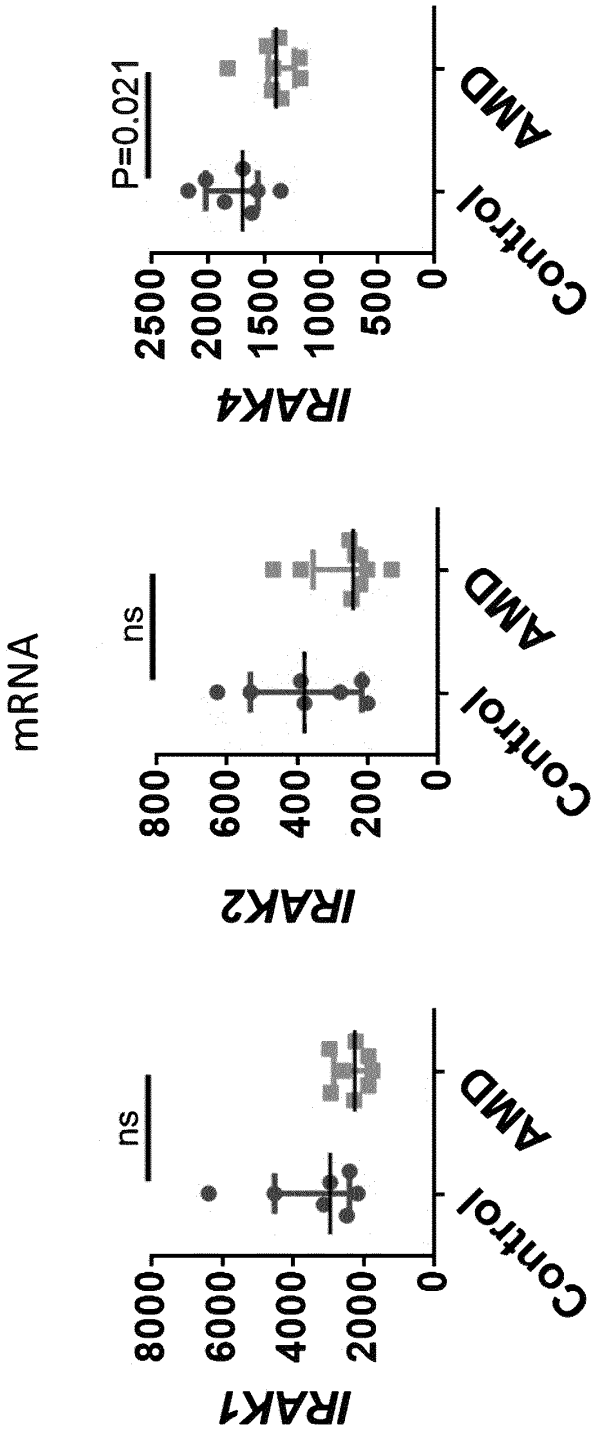
Downregulated antisense RNA

GO:0046700: heterocycle catabolic process
GO:0006760: folic acid-containing compound metabolic process
R-HSA-425393: Transport of inorganic cations/anions and amino acids/oligopeptides
R-HSA-1368082: RORA activates gene expression
GO:0006308: DNA catabolic process
WP1601: Fluoropyrimidine activity
WP4922: Mitochondrial complex IV assembly
R-HSA-9707564: Cytoprotection by HMOX1
GO:0099151: regulation of postsynaptic density assembly
R-HSA-1483213: Synthesis of PE
M87: PID LKB1 PATHWAY
GO:0030036: actin cytoskeleton organization
GO:0048709: oligodendrocyte differentiation
GO:0045838: positive regulation of membrane potential
R-HSA-159418: Recycling of bile acids and salts
GO:0045736: negative regulation of cyclin-dependent protein serine/threonine kinase activity
GO:0051881: regulation of mitochondrial membrane potential
GO:0006270: DNA replication initiation
GO:0006298: mismatch repair
GO:0033151: V(D)J recombination

Figure 10 (continued)**D****Upregulated antisense RNA**

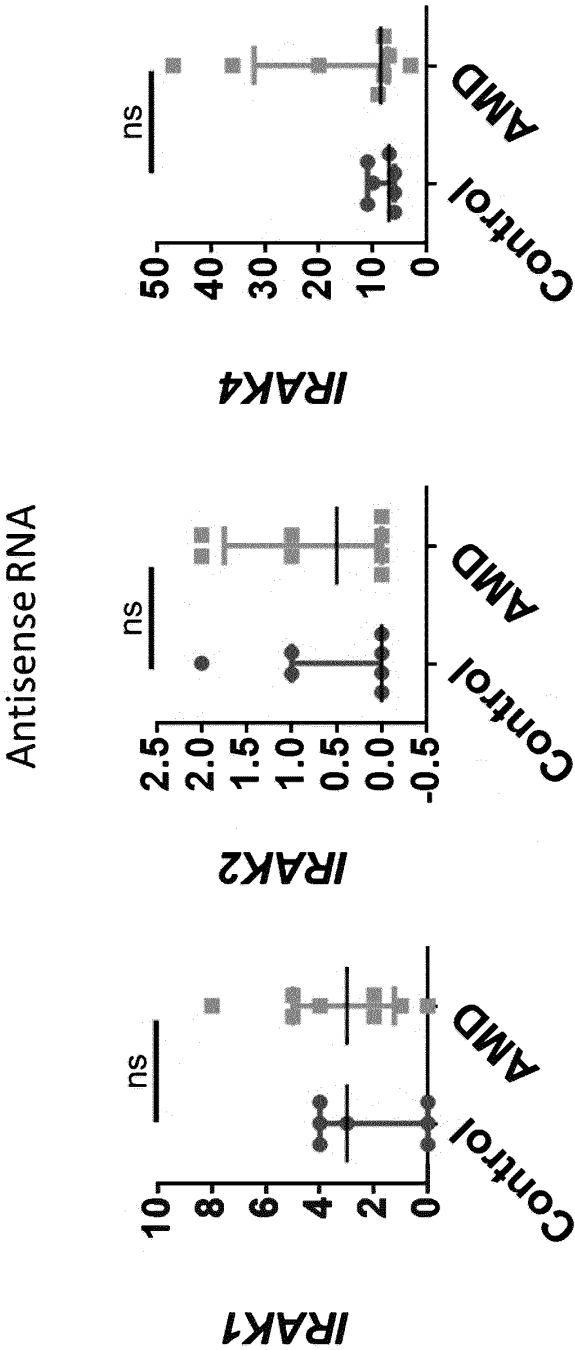
R-HSA-9010553: Regulation of expression of SLITs and ROBOs
R-HSA-194315: Signaling by Rho GTPases
WP3888: VEGFA-VEGFR2 signaling pathway
GO:0006397: mRNA processing
GO:0022613: ribonucleoprotein complex biogenesis
GO:0043254: regulation of protein-containing complex assembly
GO:0051129: negative regulation of cellular component organization
GO:0034330: cell junction organization
GO:0042176: regulation of protein catabolic process
GO:1903320: regulation of protein modification by small protein conjugation or removal
R-HSA-5653656: Vesicle-mediated transport
R-HSA-5663202: Diseases of signal transduction by growth factor receptors and second messengers
GO:0035966: response to topologically incorrect protein
GO:1901699: cellular response to nitrogen compound
GO:0050684: regulation of mRNA processing
GO:0042254: ribosome biogenesis
GO:0010256: endomembrane system organization
GO:0030705: cytoskeleton-dependent intracellular transport
GO:0006338: chromatin remodeling
R-HSA-1852241: Organelle biogenesis and maintenance

Figure 11



A

Figure 11 (continued)



B

Figure 12

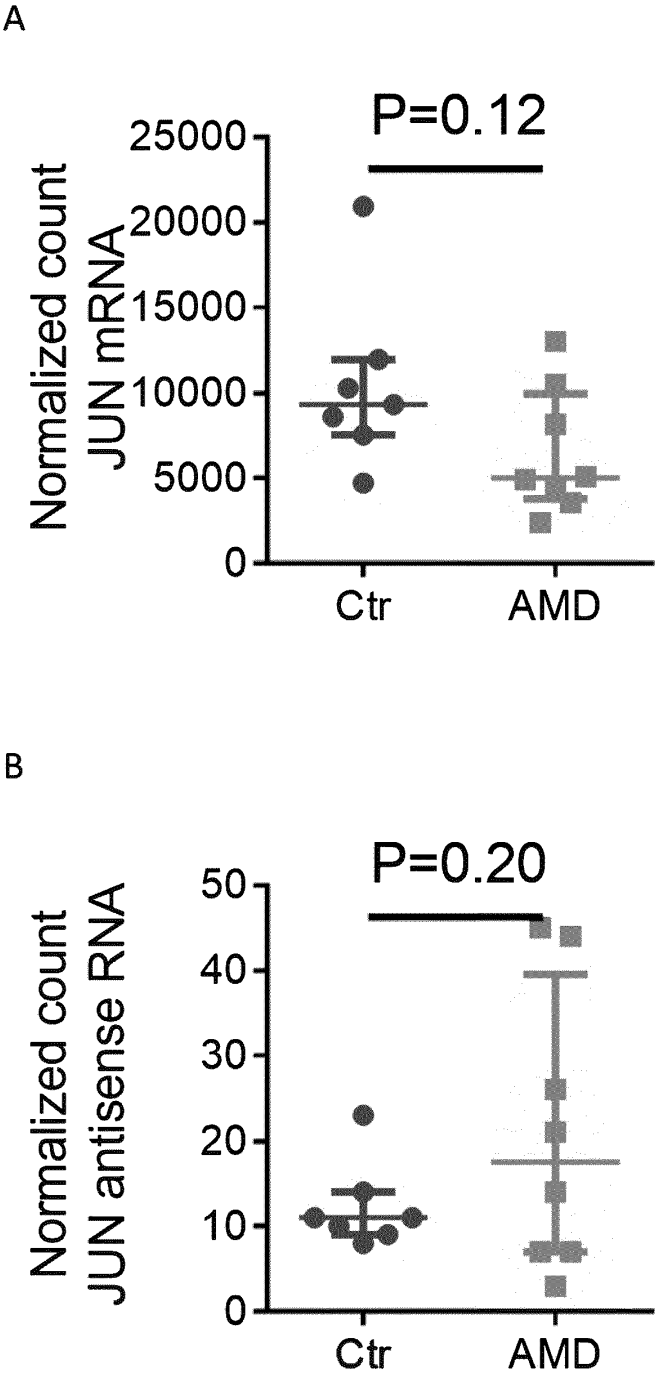


Figure 13

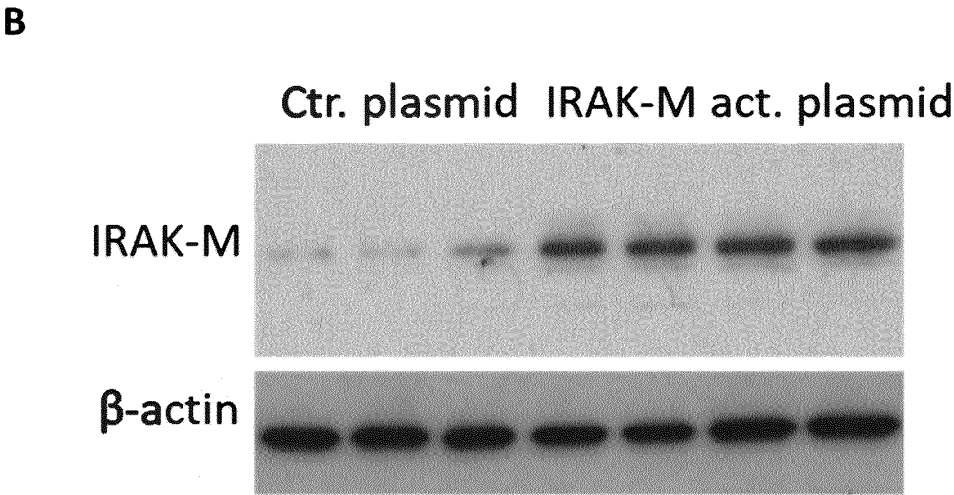
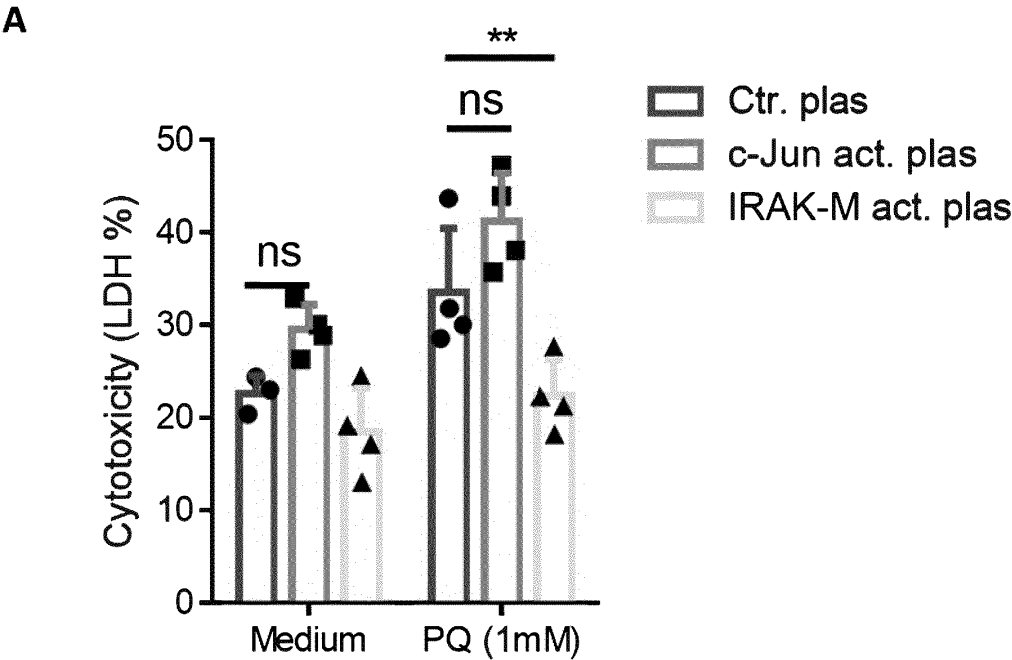


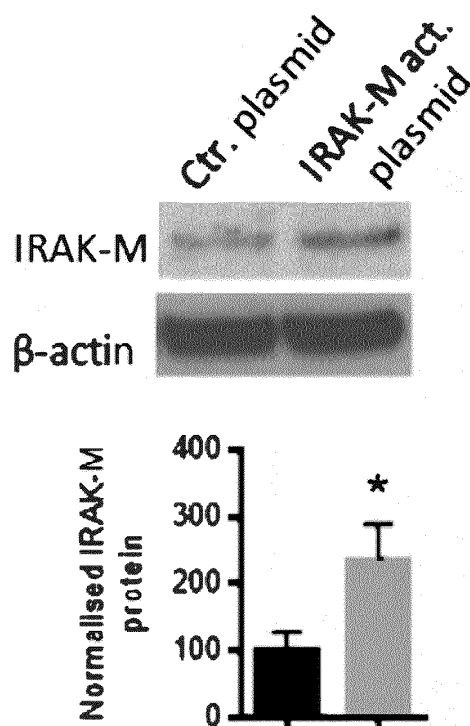
Figure 14**A**

Figure 14 (continued)

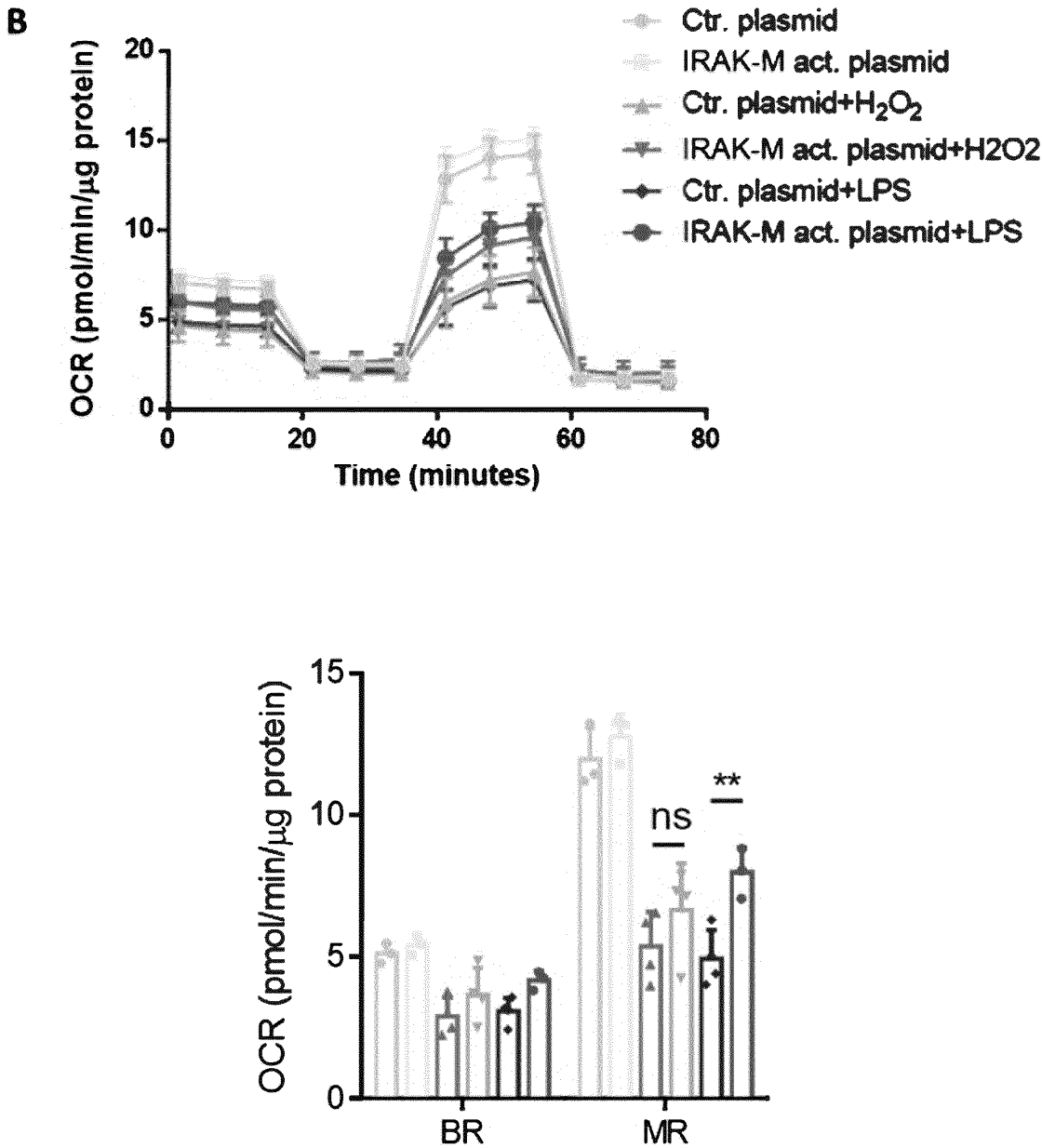


Figure 14 (continued)

C

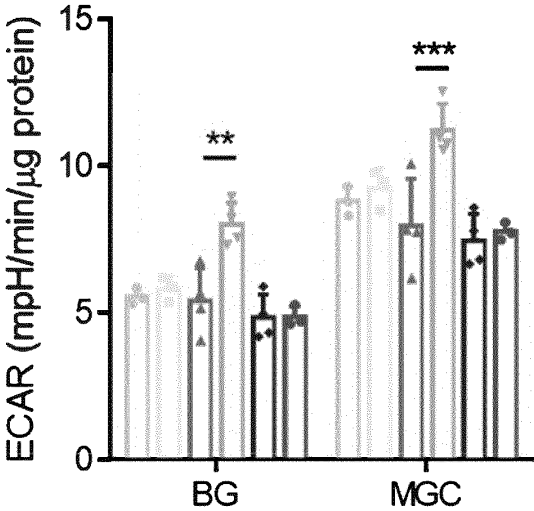
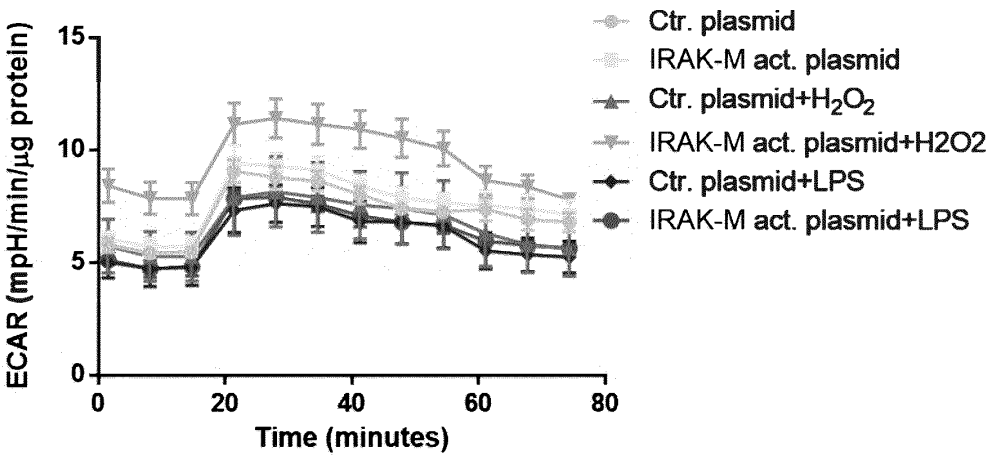
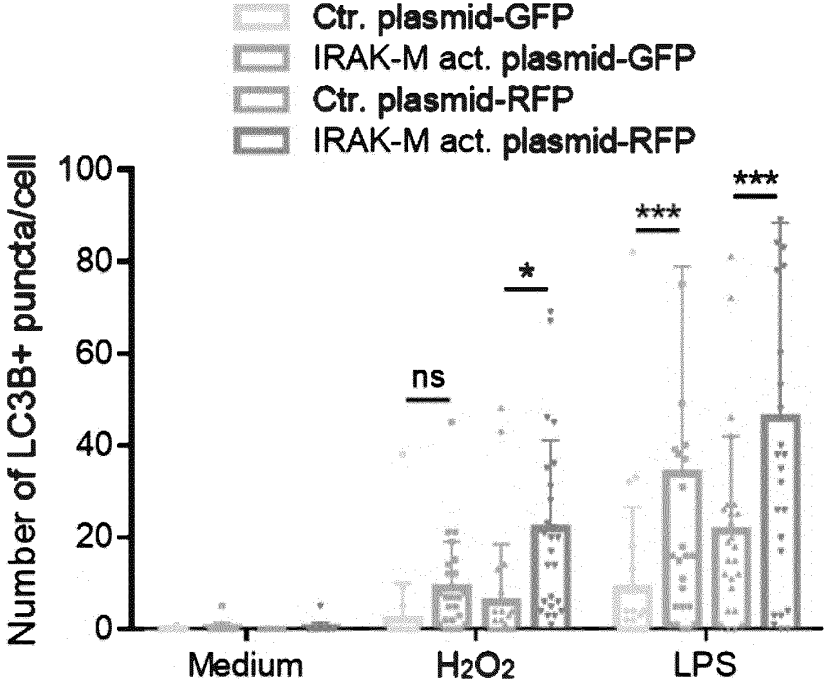


Figure 14 (continued)

D



E

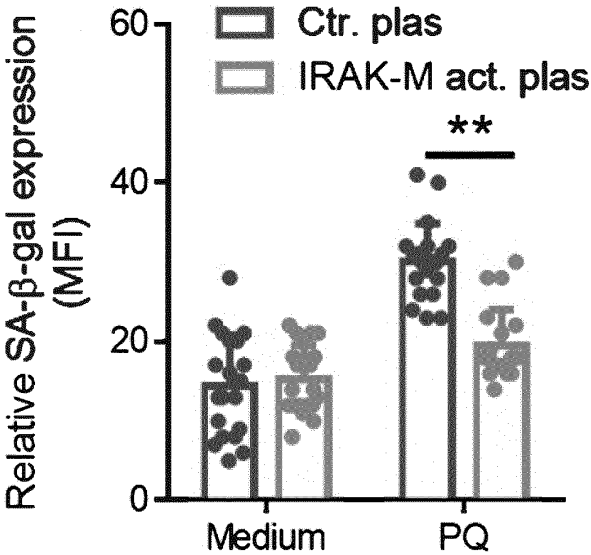
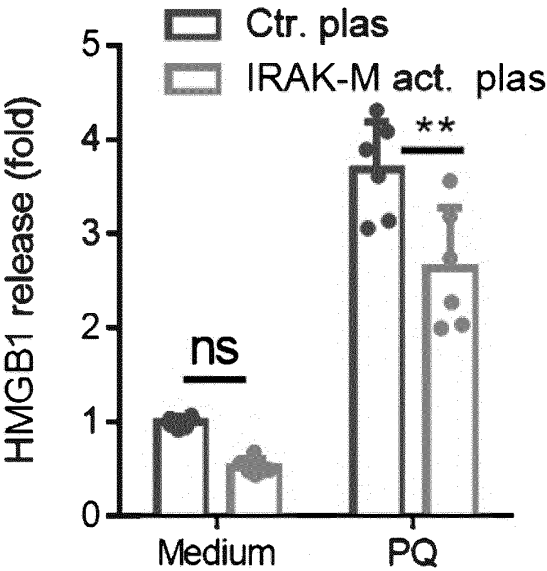


Figure 14 (continued)

F



G

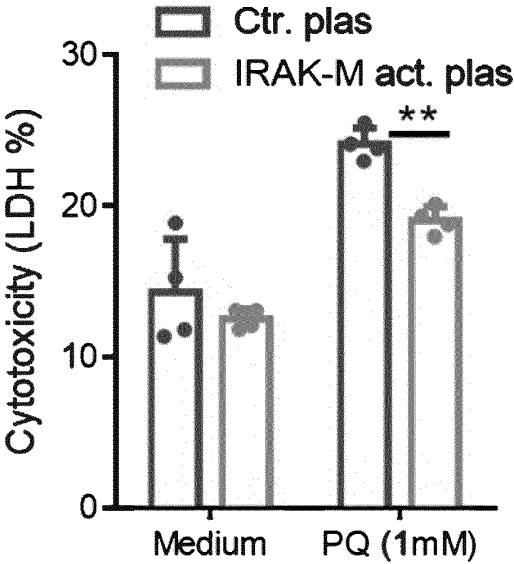


Figure 15

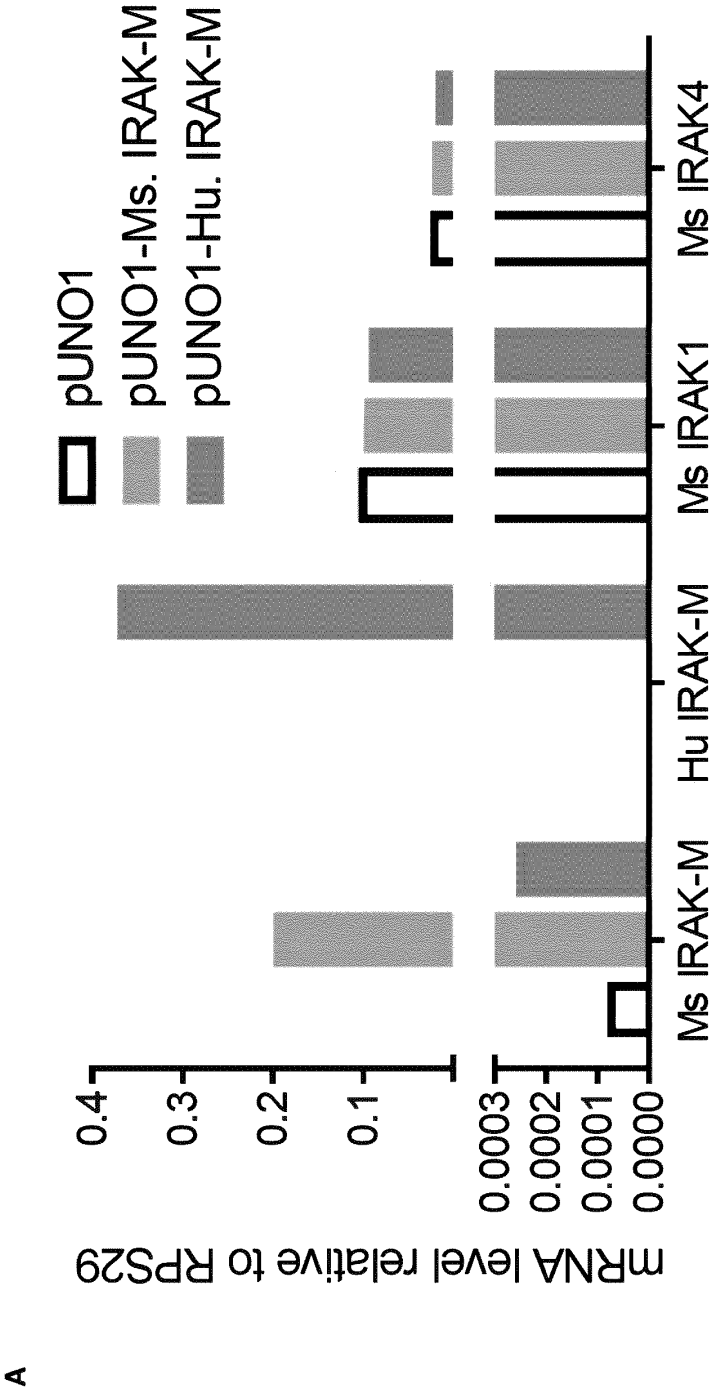


Figure 15 (continued)

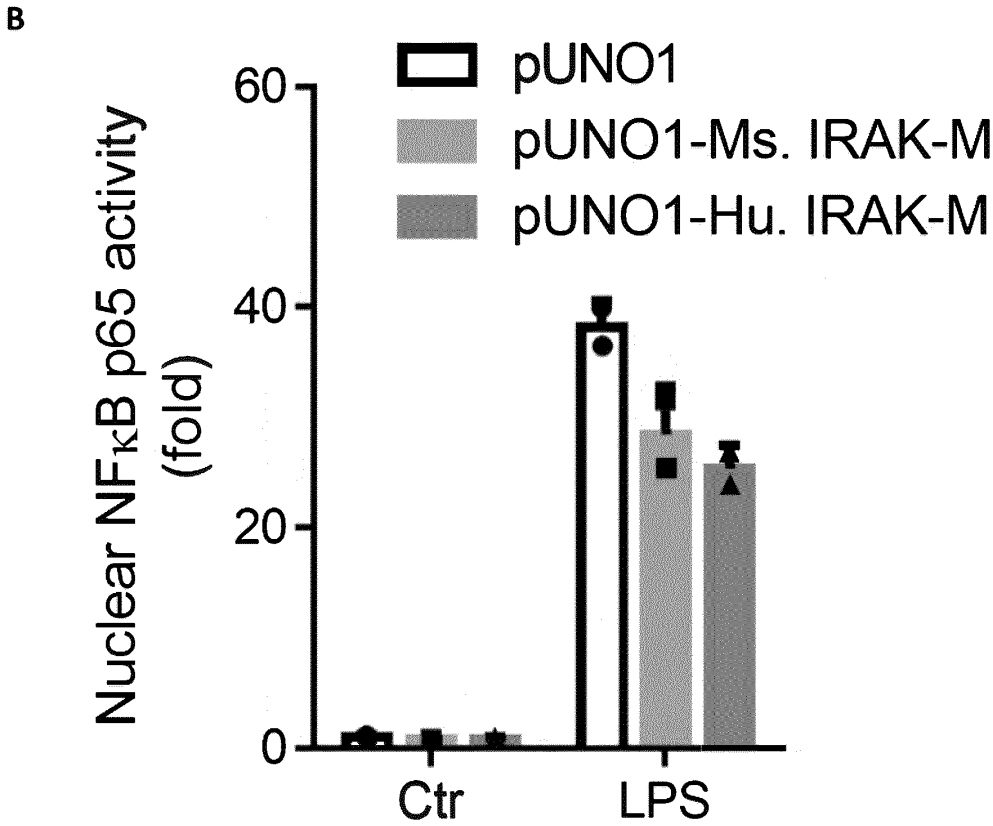


Figure 16

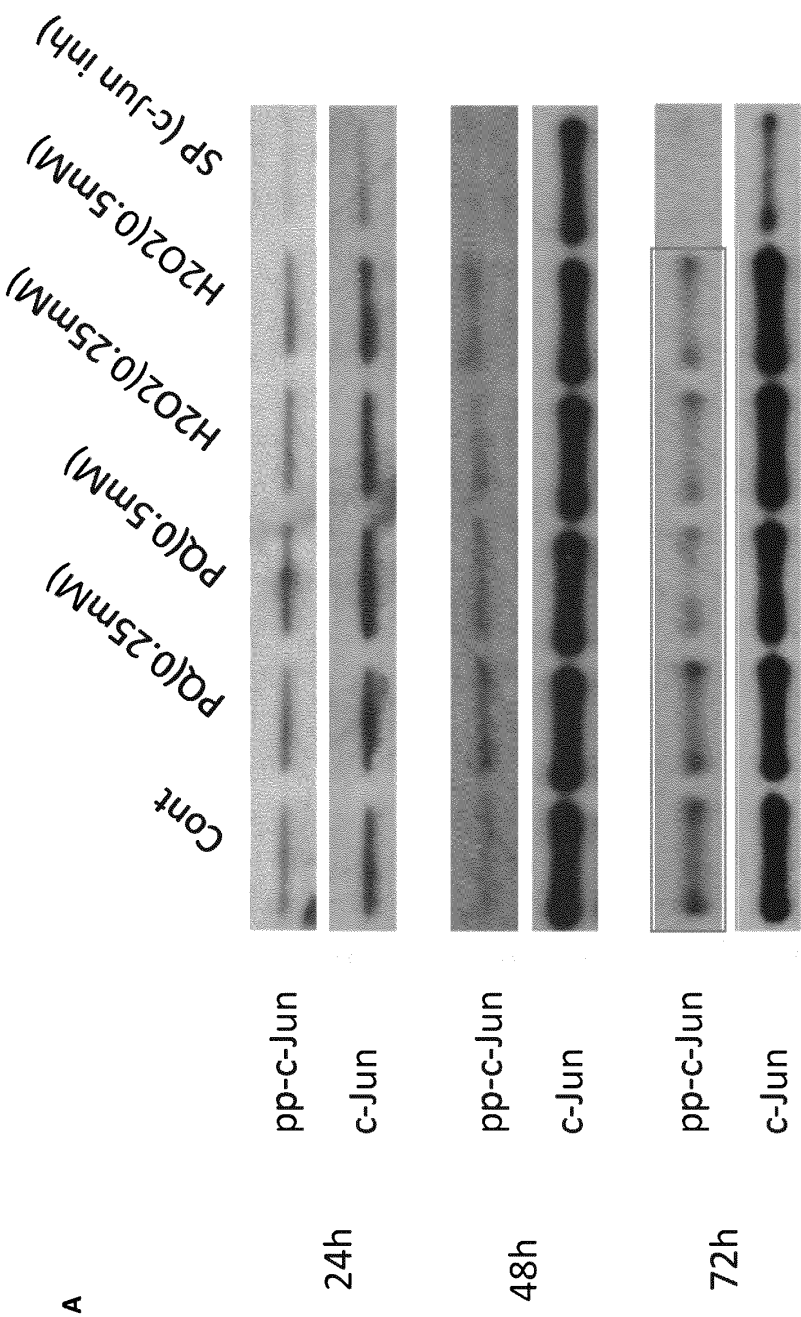


Figure 16 (continued)

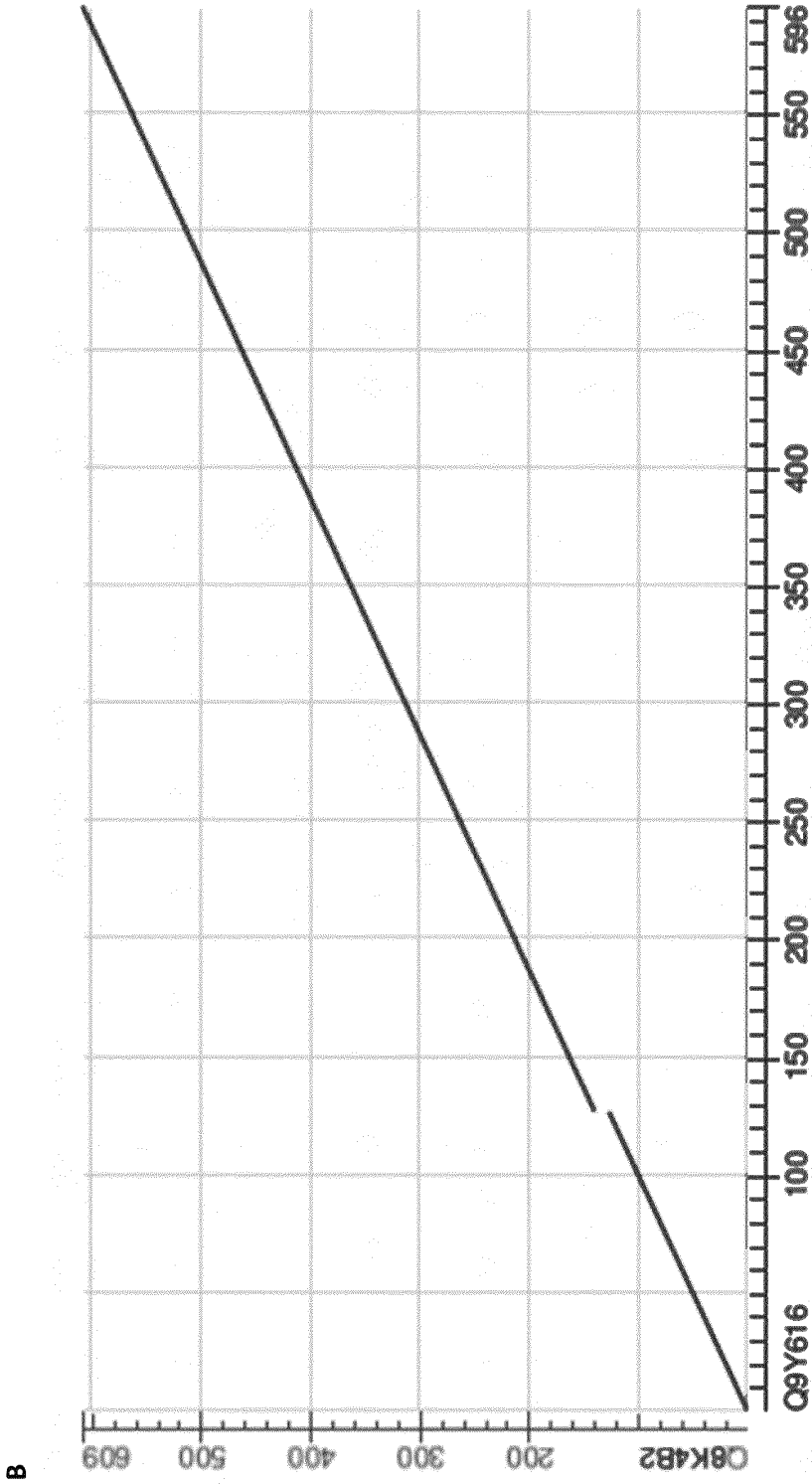


Figure 17

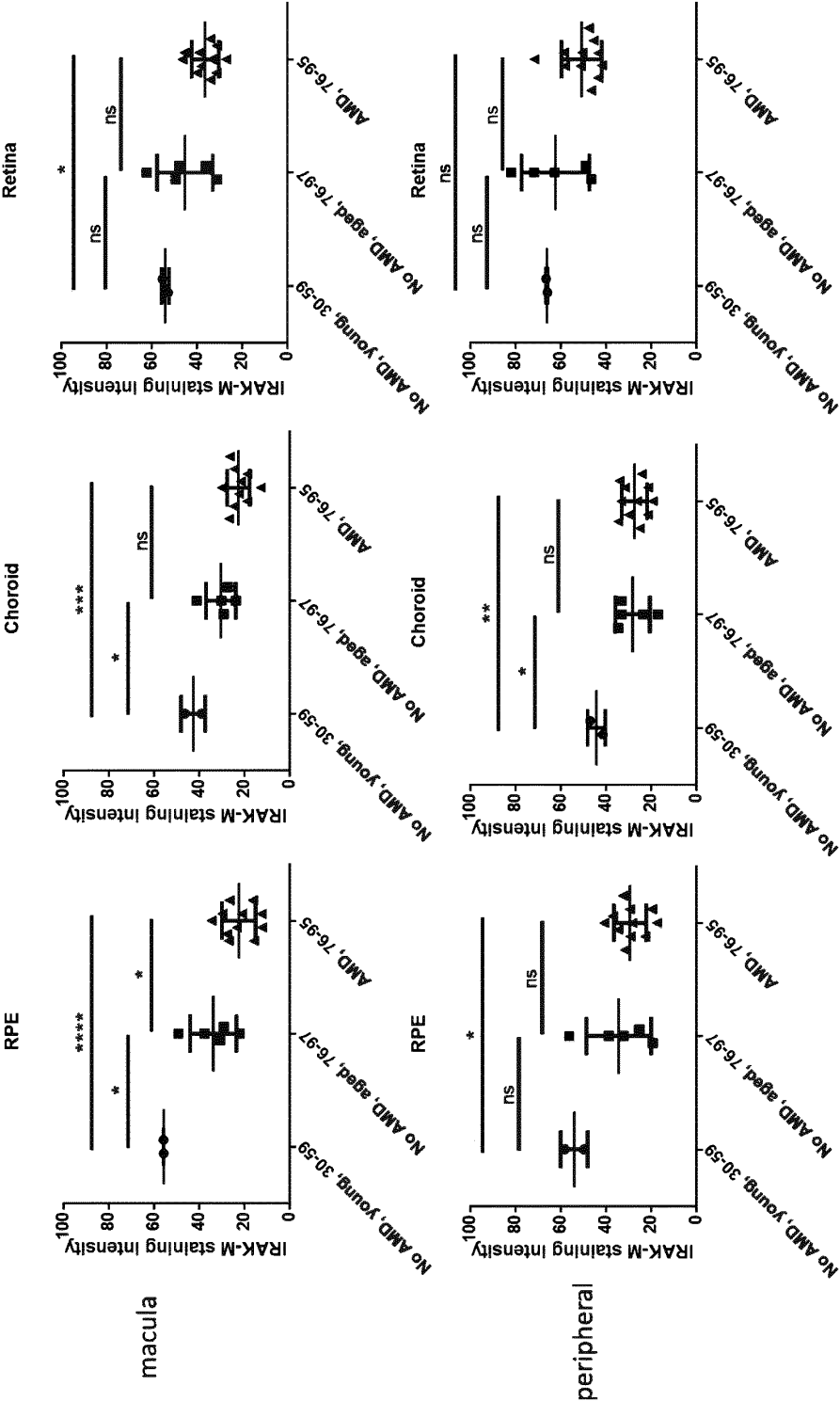


Figure 18

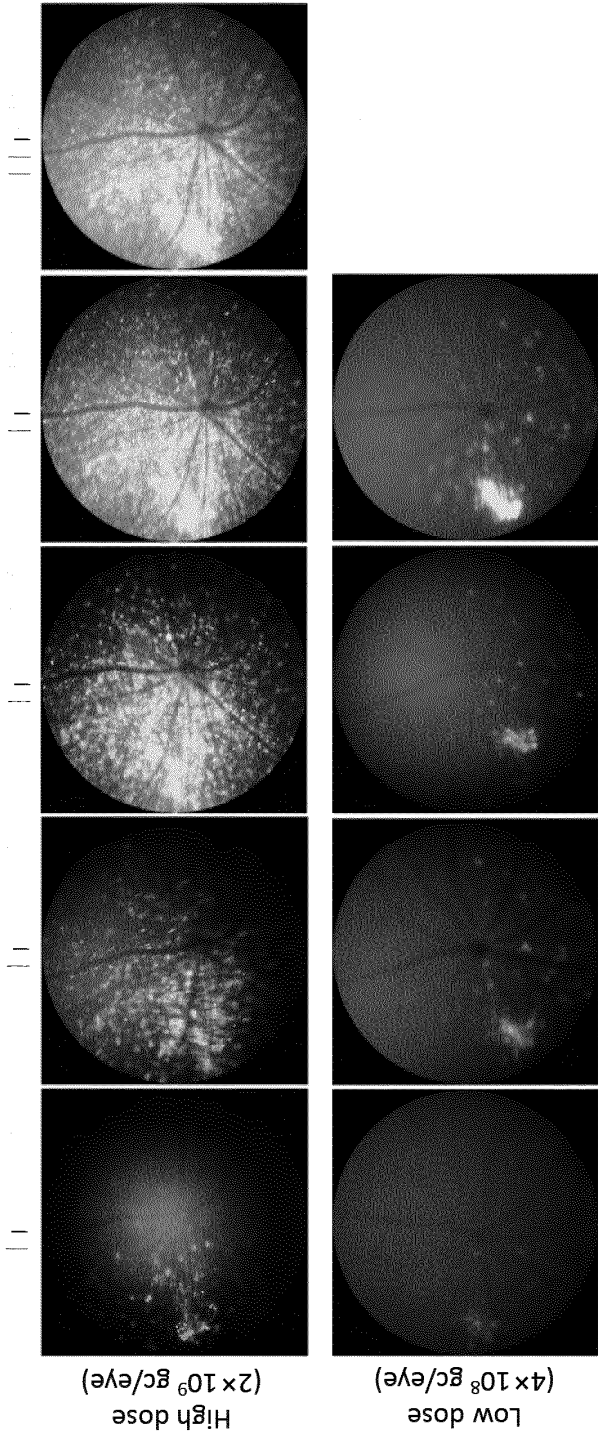


Figure 19

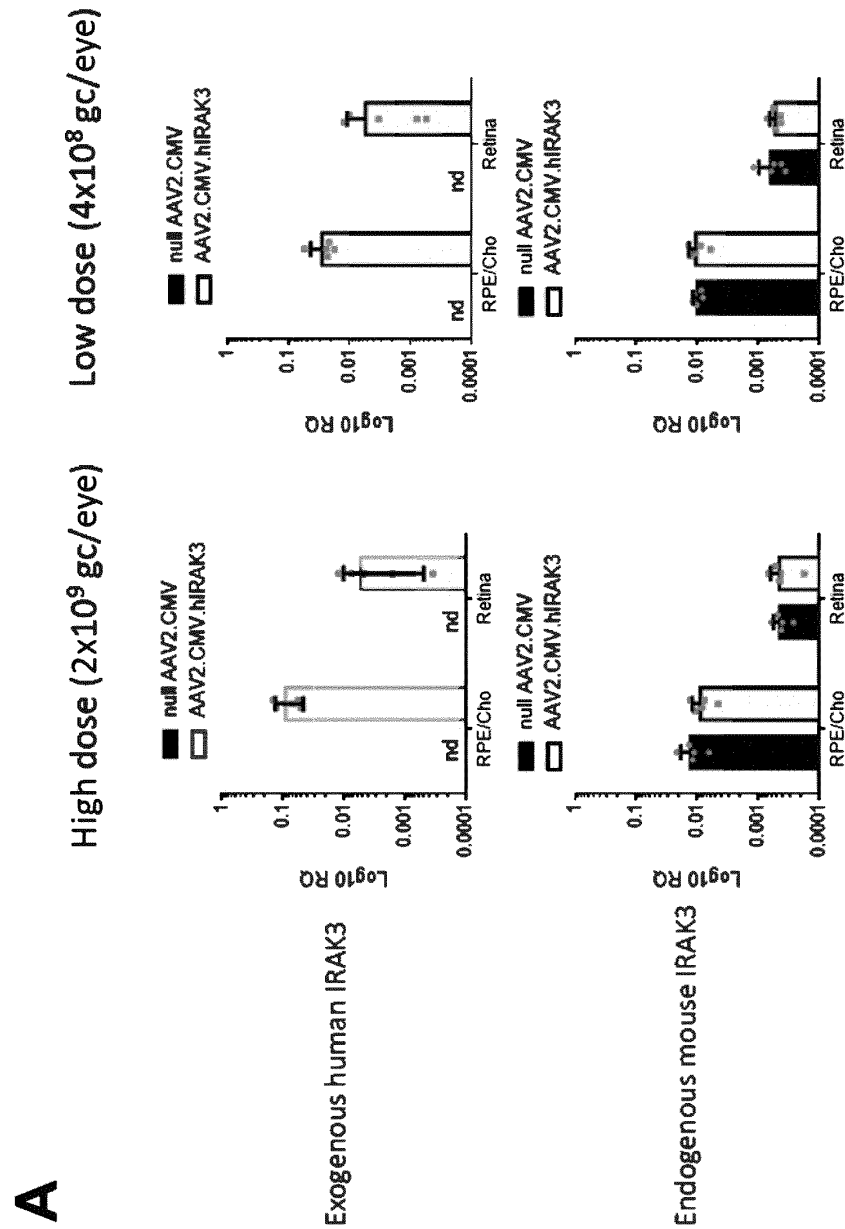


Figure 19 (continued)

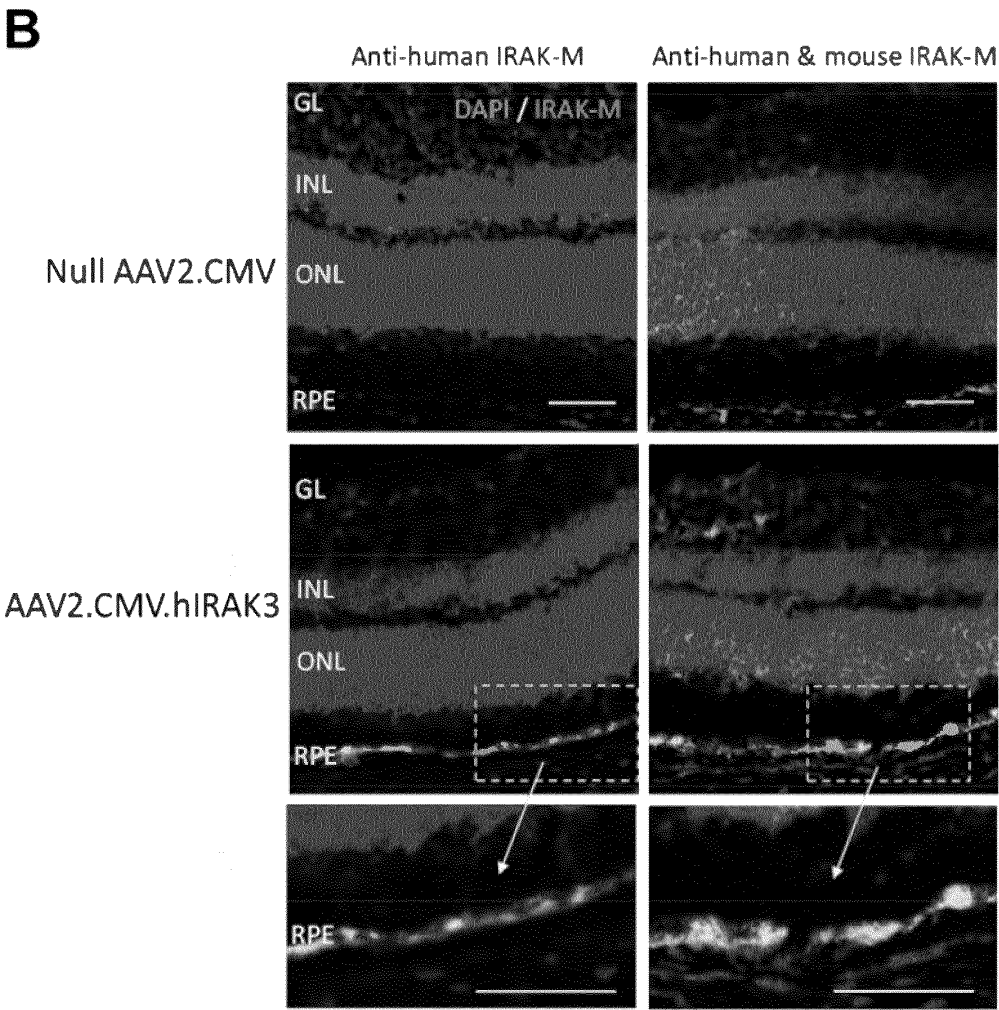


Figure 20

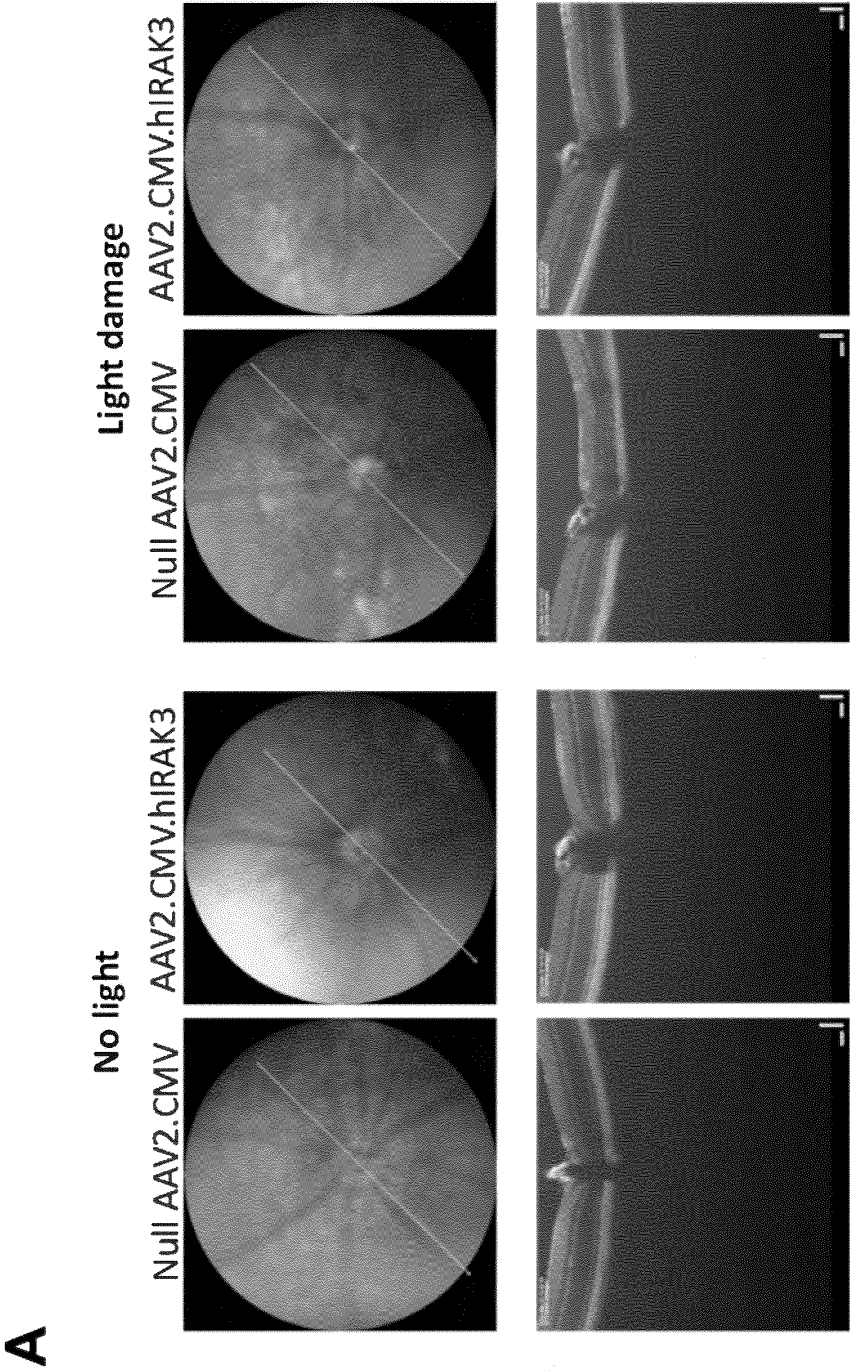


Figure 20 (continued)

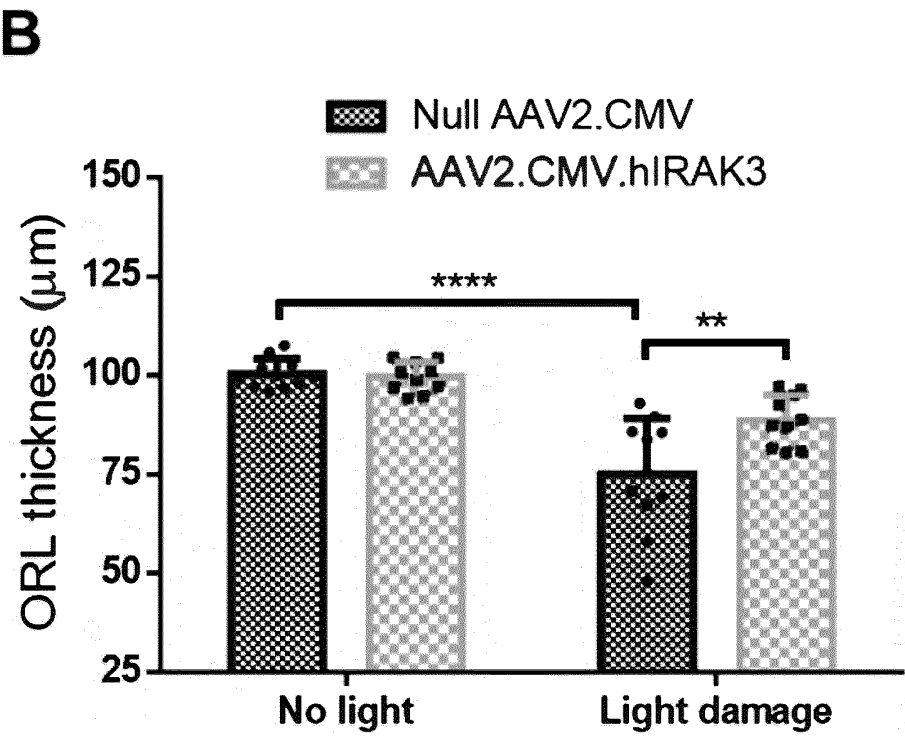


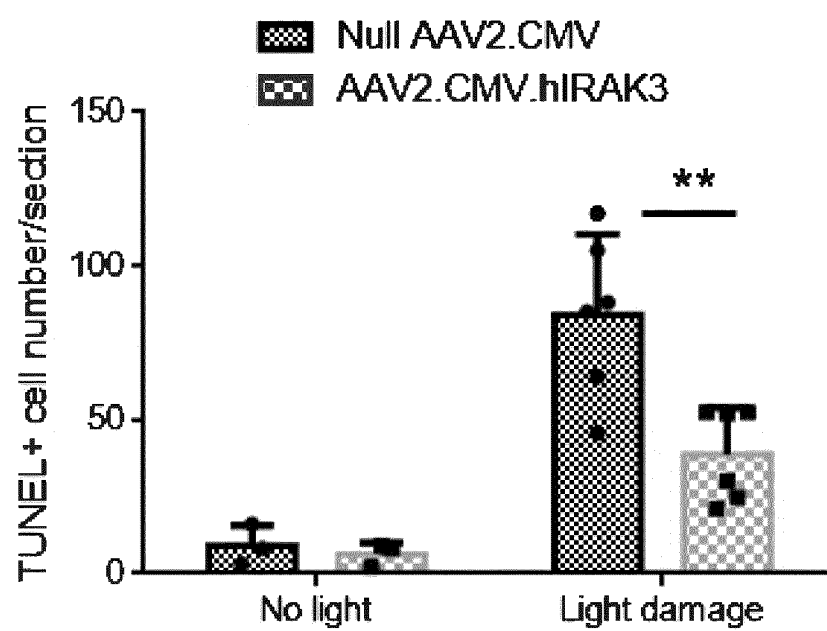
Figure 21

Figure 22

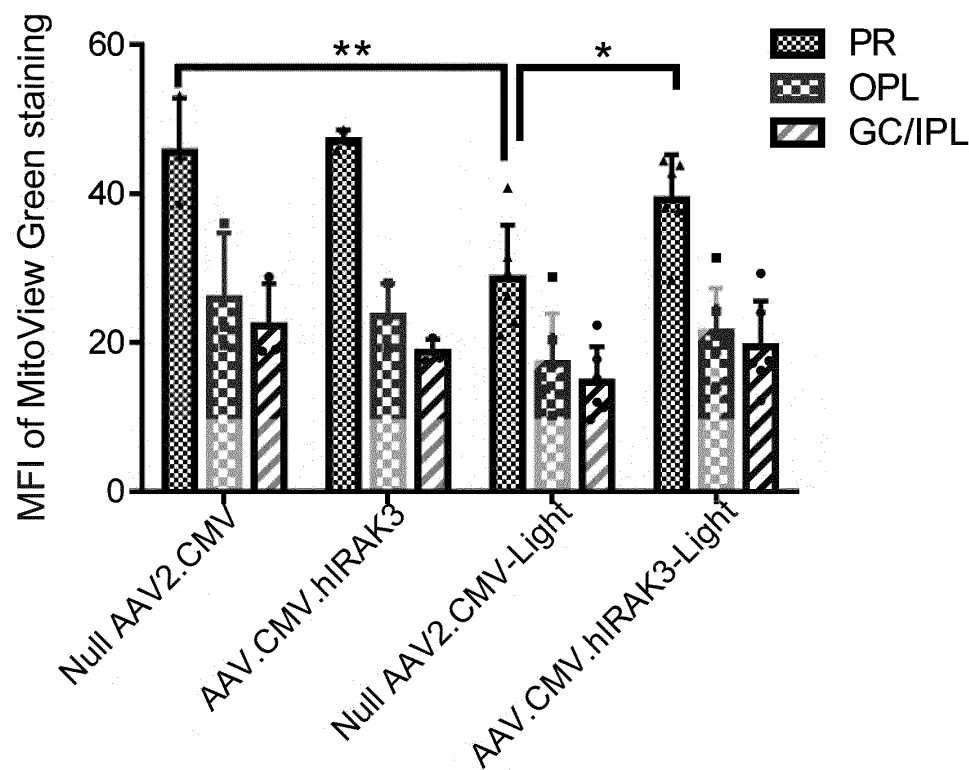
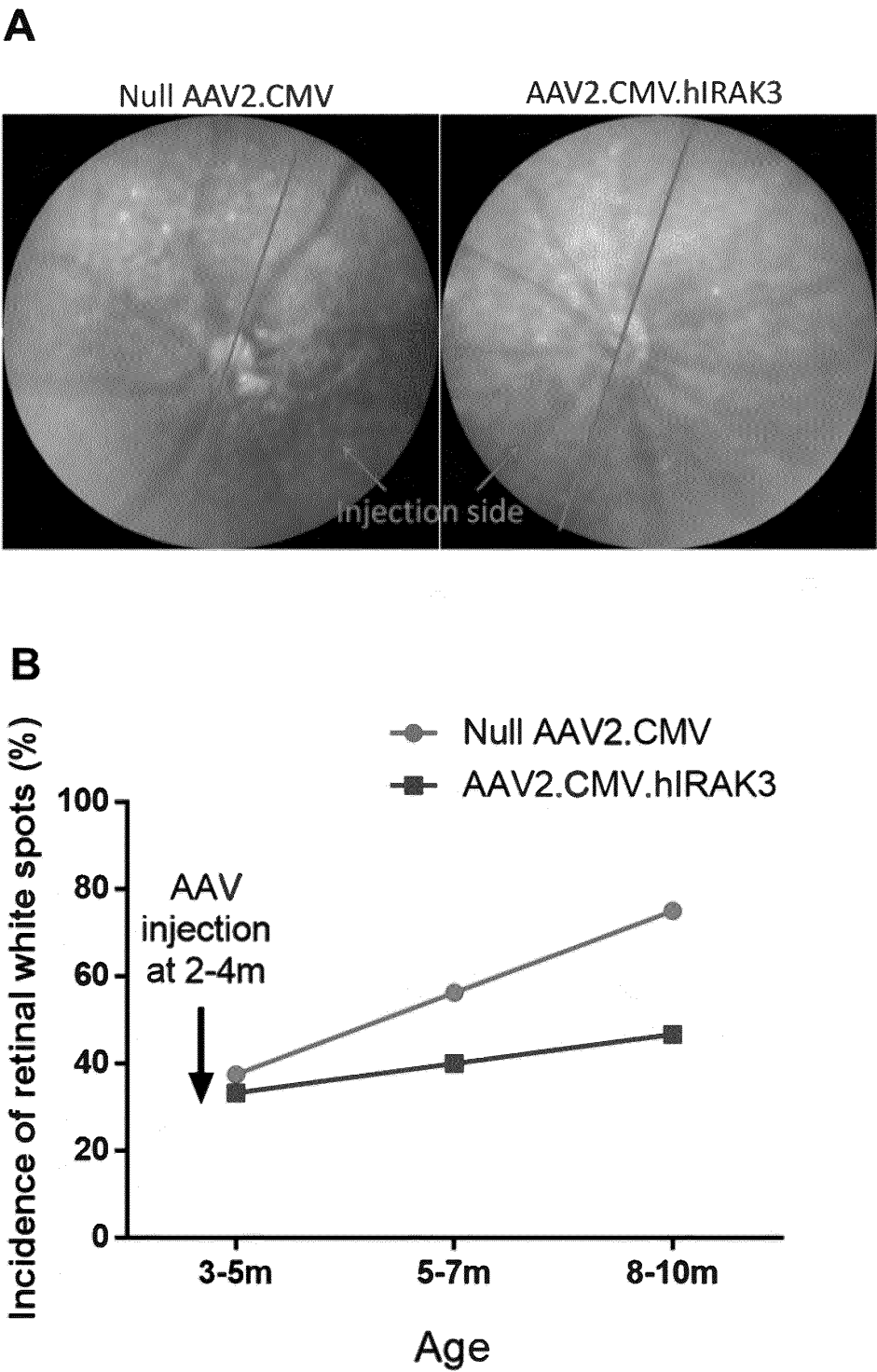


Figure 23



C

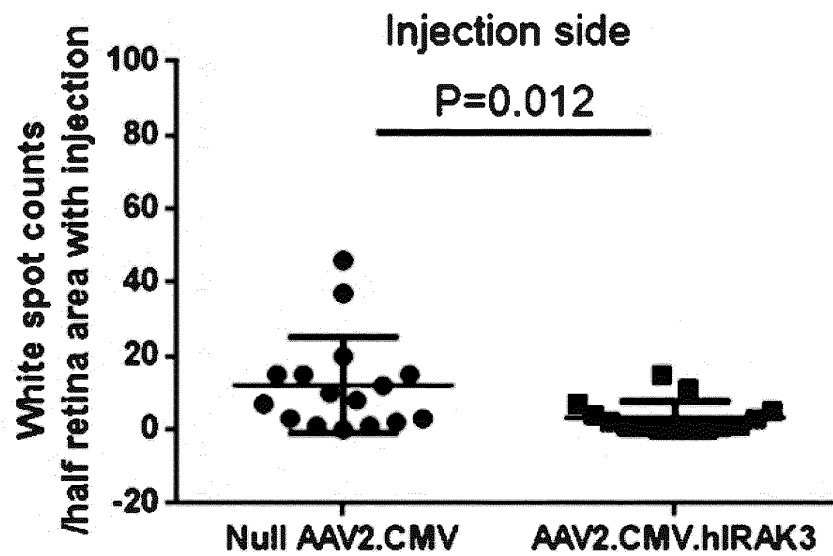


Figure 24

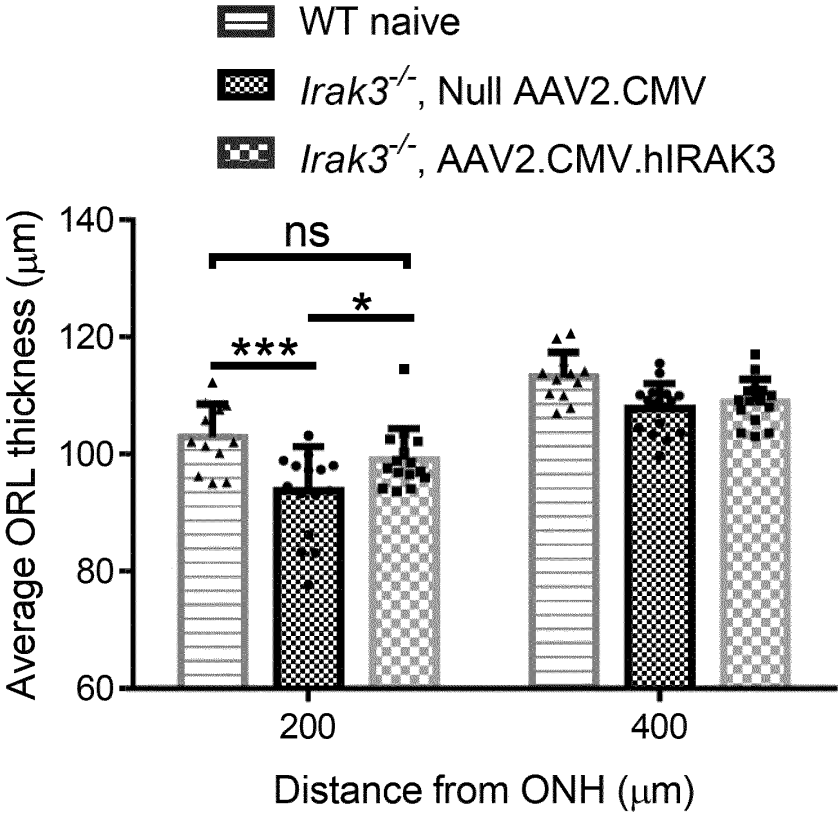


Figure 25**A**

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CCGGGTGCGGTAACCCCCAGGCCTGGCCAGGCGGACGCAGGGGCATCTCGGGCGAGGCGC
GCCTTGCGTCACGTGGGCACCGCCCCTGCAGTGACCGGAGAACGGCGTGTTCTAGGGCT
CTGCTGCCGTCTGTGAAGCAGGATTTCCGCGGTTGTGTAACGGCCTGTGCGAGGCGTGCA
GGGACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCC

B

1.36kb fragment (Endo2)

CACCTCTGGTGTTTTCACTTGATGGCCACTGCCCACTCTTCCAGTCACTAAGGCTGAGAT
TTTTCTCACCACCTTTCAAAACAACTTTTTGTCACTGGTAACATGCCTCATGTGACCTAGA
AGATTTTGAAACAACAATTTTACTTAAACTCCGTGAAGATTTCAAAACAACAATTTTACT
TAAACTCCATGTTGAAGGC AAAAAGGAAGATTGTGTGAAGCACTTTGAGGAAGGAAAAAA
TGATGGAACGATATTTTATCAAGGAAGCCCATGAGGAAGAAAATTTATTA AAACCAAGTA
GGTGTATGGAGGAGAGGCCGCCTCGTGAAGAAAACGAACATAATTTTACGCTGATTTGGT
GTCTTTTCTGTTTTTCTCTTGTTGGTATCTACATTCATCTTTTCCAATAATAATCCCATA
TATGTACATTTTTATCTGTTTAAATTCAGTAAAAGTTGGGAGGAAAATGTGTCAAAACTT
TTAGAGTGTGATGGGCTGAGTGGGGTTGTGAGTGATTATCTTCTTTTTTCAGTTTTTTTC
TGGGTTTTTCCAAGTGTTCTCGATGAACATGGATAGTTTTTCTGACAGGATAAAAAAGAA
GTAGTCCGGGACAGTGGCTAACACCCCGAATCCAGCACTTTGGGAAGCCGGAGGTGGGA
GGATCGCTTGAGGCCAGGAGTTTGAAACCAGCCTGGGCAGCATAACGACACTCCCTCTCT
ACGAAAAACGAAAAAAATAATTAGCCGGACGTGGTGGCGTGCGACTGTGGTCCCAGCTA
CTCGGGAGGCTGAGGTGGGAGGATCGCTTGAGCCCAATAGGTGGAGGCTCCGTGAGCTGA
GATAGCGCCACTGCGCTCCTGCCTGGGCGACAGAGTGAGAACCTGACTCAAAACAAAGAA
AAAAGGAAGAAAAGAAAGGAAGGGAAGAAGGAAGGAAGGGAGAAGCTTTCAAAAATAAAC
TTTTGTAAGAAGTAATGACACCGCTAGCCGTCCACACCAGGAGACCGCCTAGCCGTGGGG
CACGGTGGGCTCCTGGGAGCTCTGAGCTCTGGGCTTTCTCCAGTTCGCACTCTGCTTGTC
TCGGCAGCTCCGTCCCCACCGCAGAGGTGTGAAGGGGCGCAAAGCCAGCGAAGGGAGAAC
CCGGGTGCGGTAACCCCCAGGCCTGGCCAGGCGGACGCAGGGGCATCTCGGGCGAGGCGC
GCCTTGCGTCACGTGGGCACCGCCCCTGCAGTGACCGGAGAACGGCGTGTTCTAGGGCT
CTGCTGCCGTCTGTGAAGCAGGATTTCCGCGGTTGTGTAACGGCCTGTGCGAGGCGTGCA
GGGACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCC

Figure 25 (continued)**C**

1.6kb fragment (Endo3)

GAAGGAAGGAAGGAAGGTAGGTAGGTGTACAGTGTGTACAGATTGACAATAAAACCTTGA
ACAACGGGATATCGAAATTCTTGCCACACAGTATGGGCTTTGCCAGTTTTTCAGATACAT
TTTTATGAAGTATTTTCGCTGGCAAAACCATTCAGGTAGGGGCATGAAATGATAGTGTTT
CATCACTCGTGATCTCTAGGGGCAGCTATTCCAAAGACTACAATCTGAGAGGTTTCAAAA
CACCTCTGGTGTTTTCACTTGATGGCCACTGCCACTCTTCCAGTCACTAAGGCTGAGAT
TTTTCTCACCCTTTCAAAACAACTTTTTGTCACTGGTAACATGCCTCATGTGACCTAGA
AGATTTTGAAACAACAATTTTACTTAAACTCCGTGAAGATTTCAAAACAACAATTTTACT
TAAACTCCATGTTGAAGGCAAAAAGGAAGATTGTGTGAAGCACTTTGAGGAAGGAAAAAA
TGATGGAACGATATTTTCATCAAGGAAGCCCATGAGGAAGAAAATTTATTAAAACCAAGTA
GGTGTATGGAGGAGAGGCCCGCTCGTGAAGAAAACGAACATAATTTTACGCTGATTTGGT
GTCCTTTCTGTTTTCTCTTGTGGTATCTACATTCATCTTTTCCAATAATAATCCATA
TATGTACATTTTATCTGTTTAAATTTCAGTAAAAGTTGGGAGGAAAATGTGTCAAACTT
TTAGAGTGTGATGGGCTGAGTGGGGTTGTGAGTGATTATCTTCTTTTTTCAGTTTTTTTC
TGGGTTTTCCAAGTGTTCCTCGATGAACATGGATAGTTTTTCTGACAGGATAAAAAAGAA
GTAGTCCGGGACAGTGGCTAACACCCCGAATCCCAGCACTTTGGGAAGCCGGAGGTGGGA
GGATCGCTTGAGGCCAGGAGTTTGAAACCAGCCTGGGCAGCATAACGACACTCCCTCTCT
ACGAAAAACGAAAAAAATAATTAGCCGGACGTGGTGGCGTGCGACTGTGGTCCCAGCTA
CTCGGGAGGCTGAGGTGGGAGGATCGCTTGAGCCCAATAGGTGGAGGCTCCGTGAGCTGA
GATAGCGCCACTGCGCTCCTGCCTGGGCGACAGAGTGAGAACCTGACTCAAACAAAGAA
AAAAGGAAGAAAAGAAAGGAAGGGAAGAAGGAAGGAAGGGAGAAGCTTTCAAAAATAAAC
TTTTGTAAGAAGTAATGACACCGCTAGCCGTCCACACCAGGAGACCGCCTAGCCGTGGGG
CACGGTGGGCTCCTGGGAGCTCTGAGCTCTGGGCTTTCTCCAGTTCGCACTCTGCTTGTC
TCGGCAGCTCCGTCCCCACCGCAGAGGTGTGAAGGGGCGCAAAGCCAGCGAAGGGAGAAC
CCGGGTCGGGTAACCCCCAGGCCTGGCCAGGCGGACGCAGGGGCATCTCGGGCGAGGCGC
GCCTTGCGTCACGTGGGCACCGCCCCTGCAGTGACCGGAGAACGGCGTGTTCCTAGGGCT
CTGCTGCCGTCTGTGAAGCAGGATTTCCGCGGTTGTGTAAACGGCCTGTCGCAGGCGTGCA
GGGACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCC

Figure 26

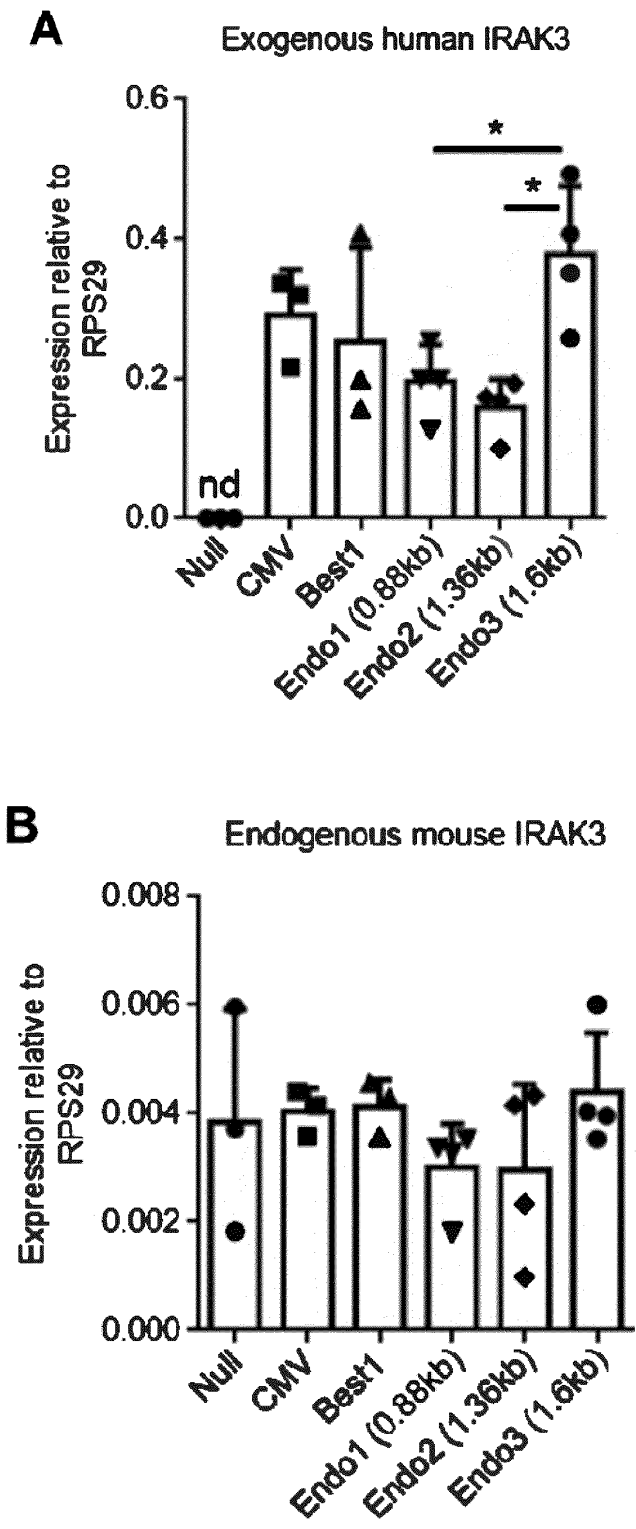


Figure 26 (continued)

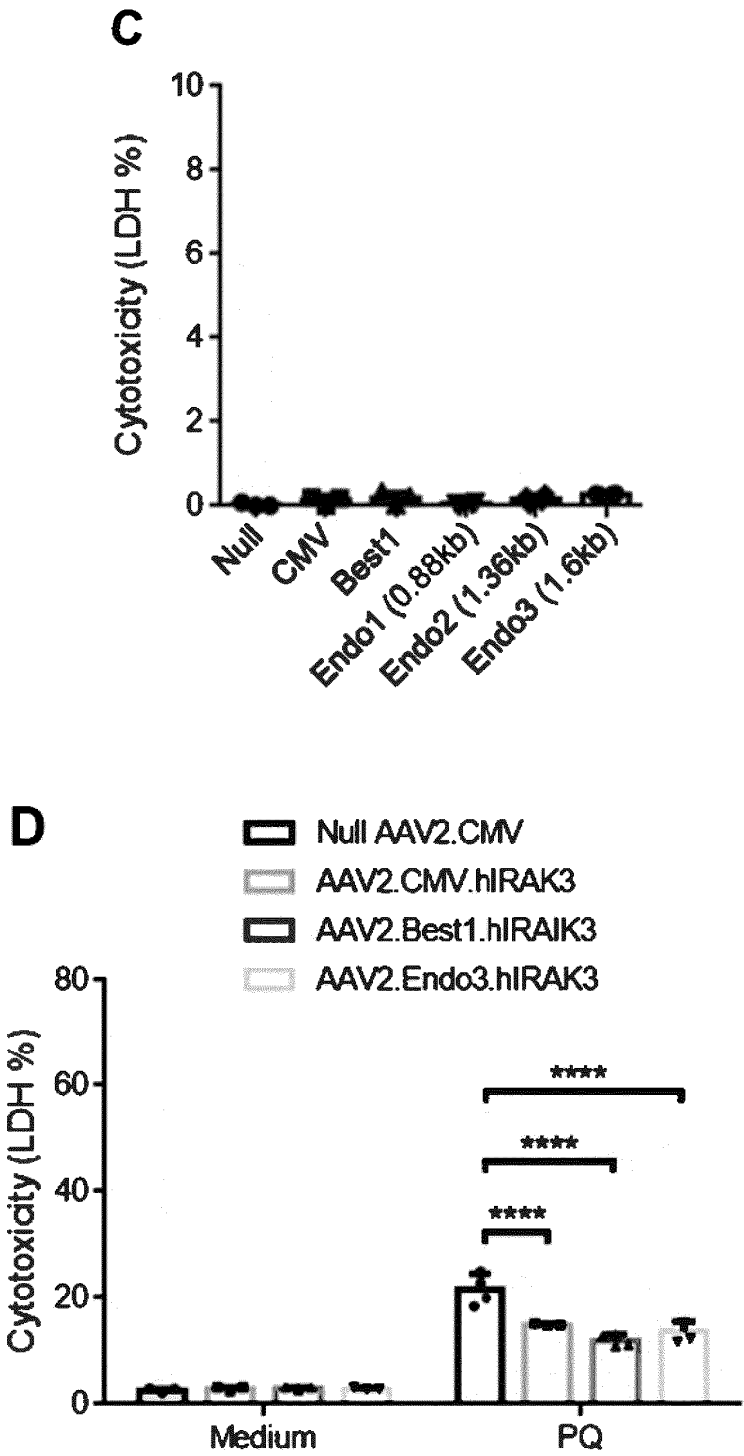


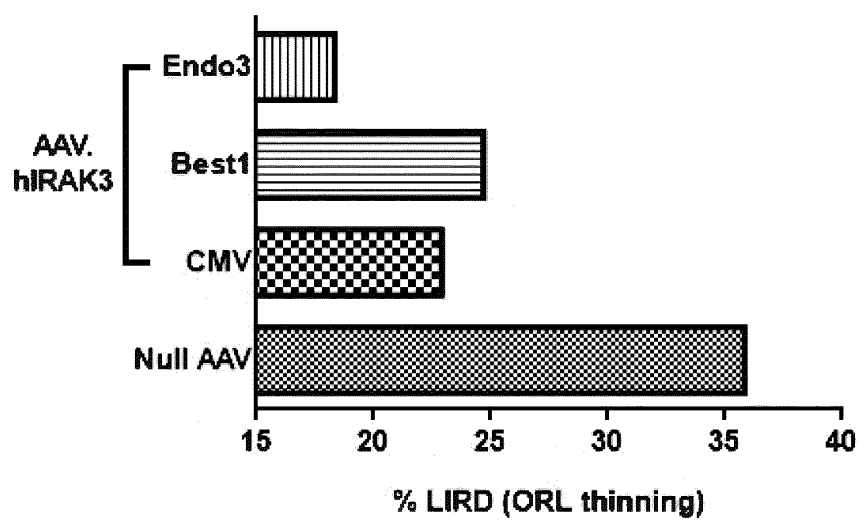
Figure 26 (continued)**E**

Figure 27

