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FIG. 1A

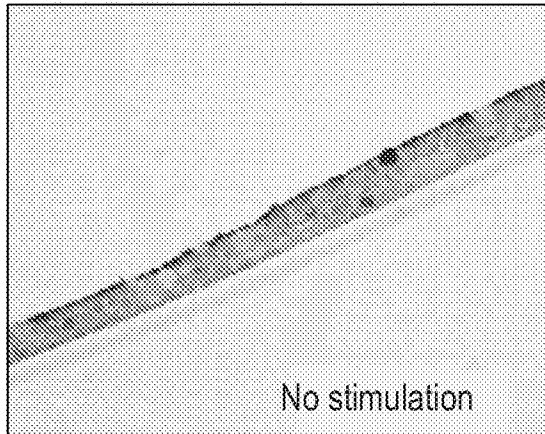


FIG. 1B

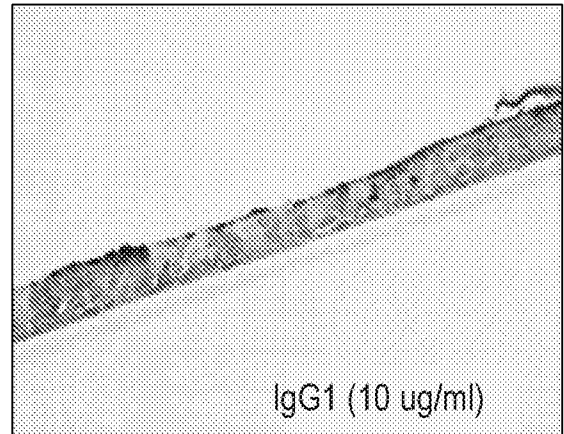


FIG. 1C

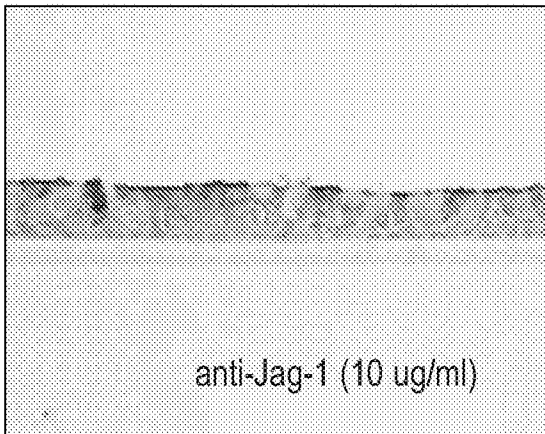
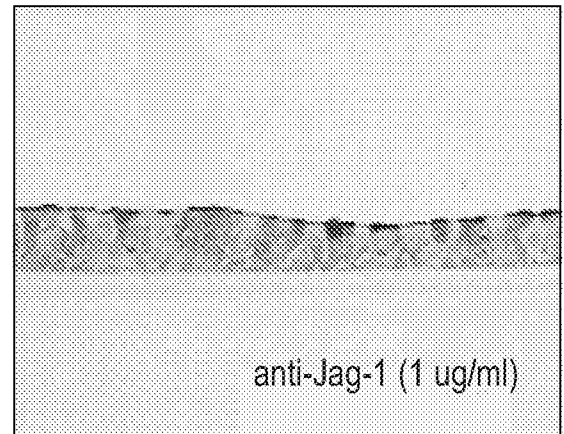


FIG. 1D



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FIG. 1E

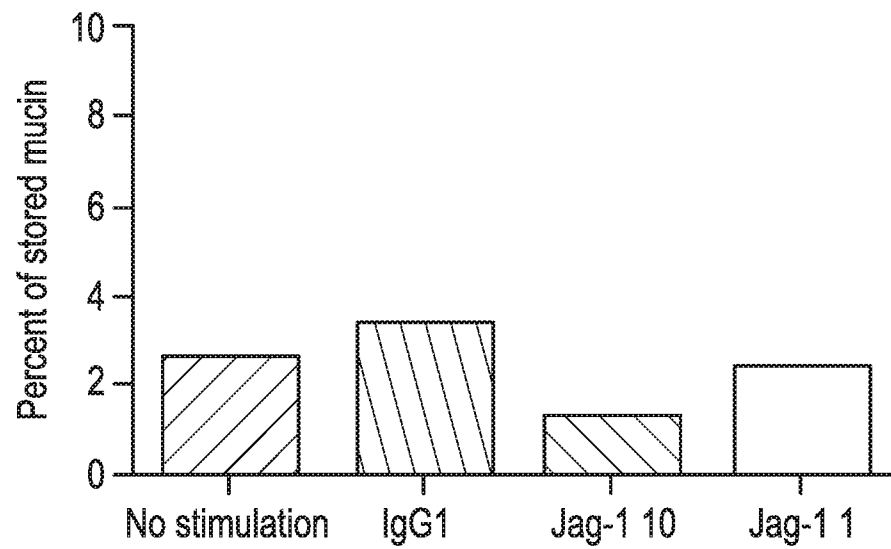
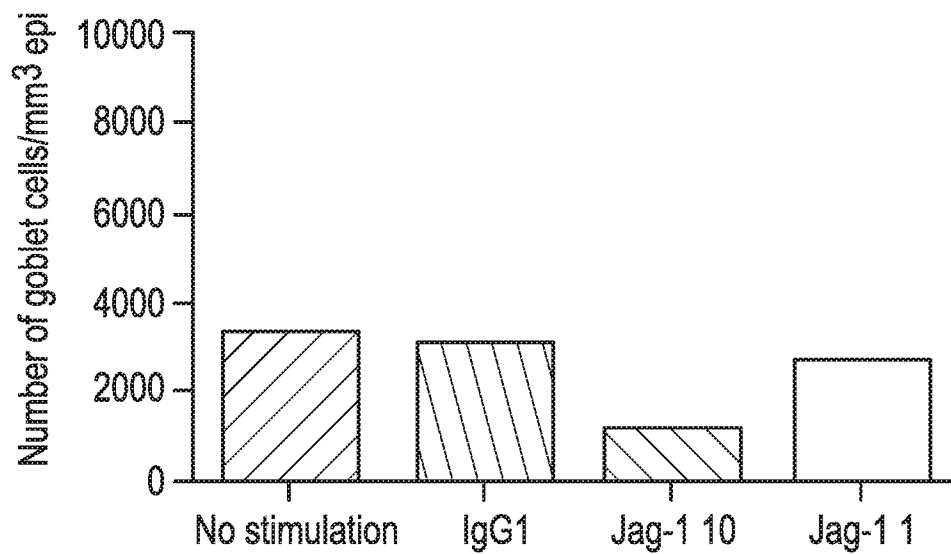


FIG. 1F



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FIG. 2A

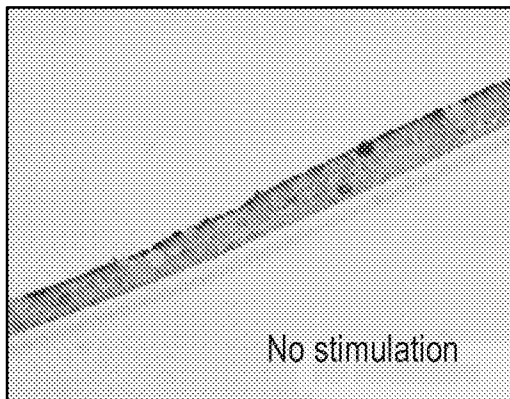


FIG. 2B

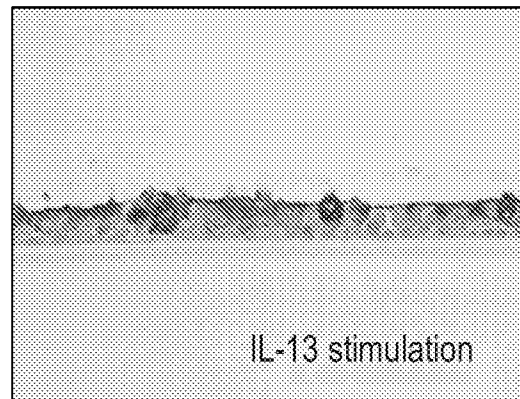


FIG. 2C

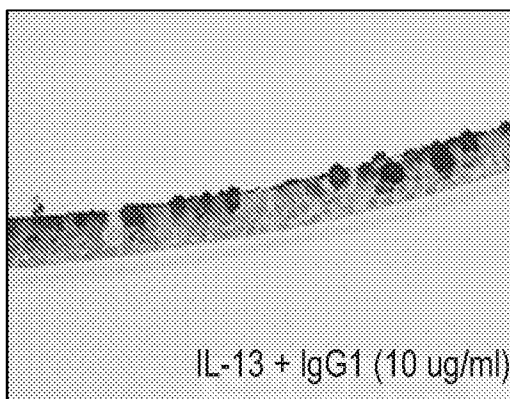


FIG. 2D

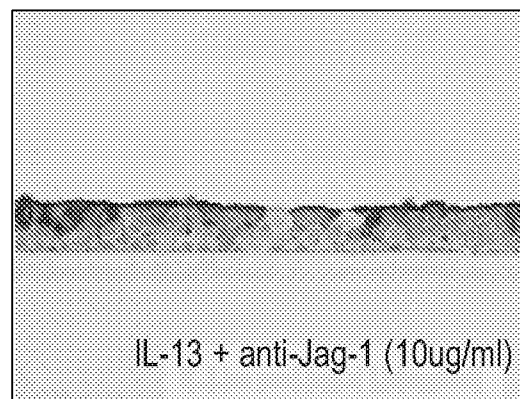
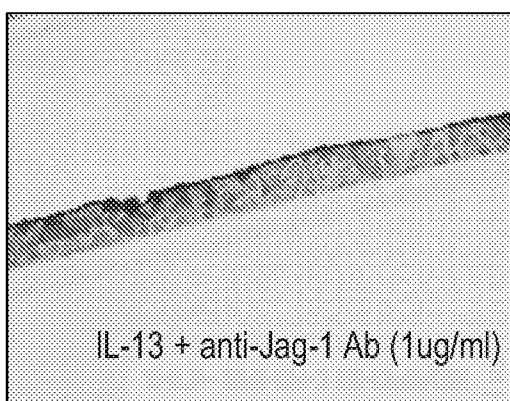


FIG. 2E



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FIG. 2F

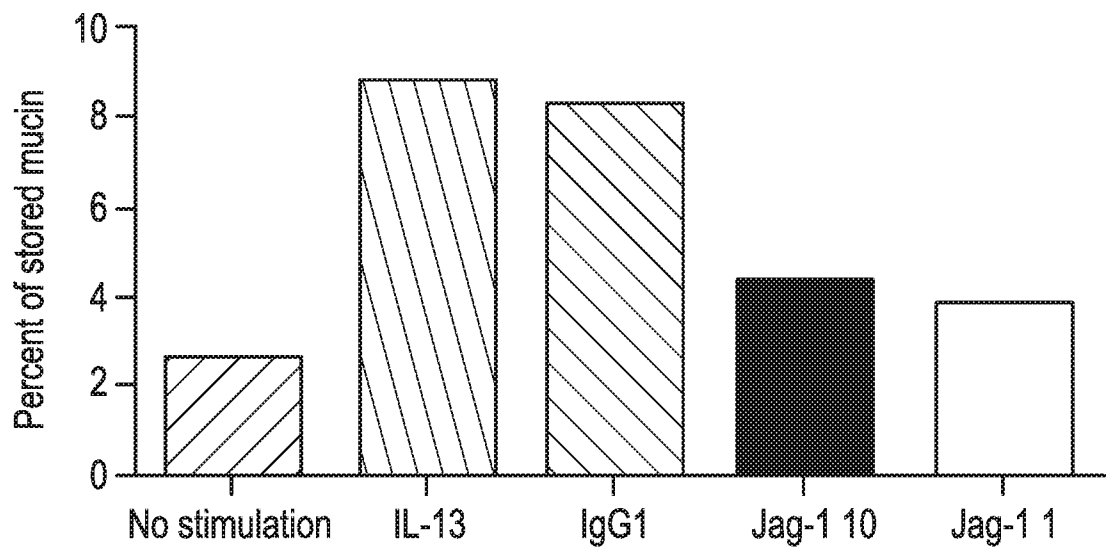


FIG. 2G

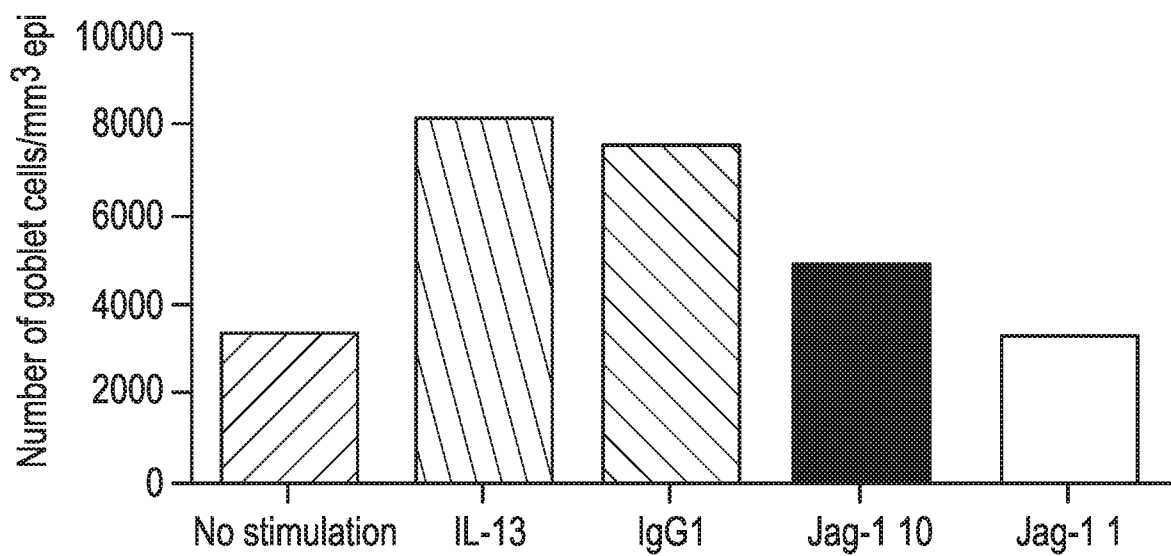


FIG. 3A

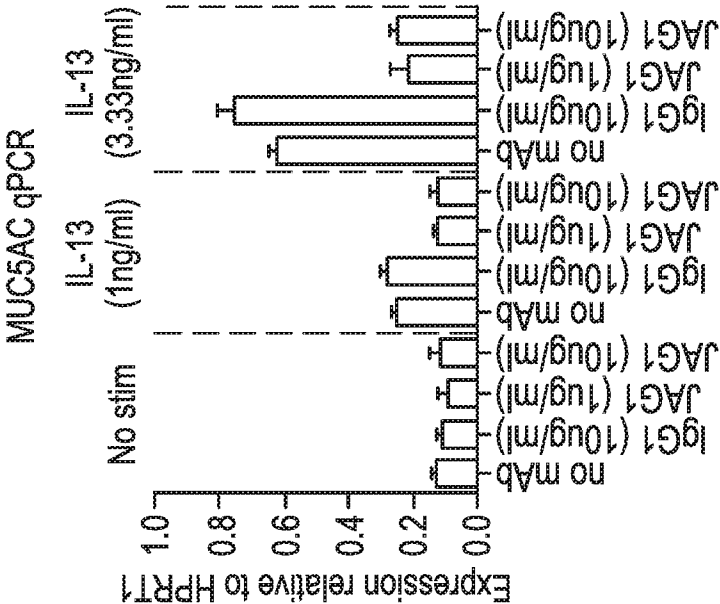


FIG. 3B

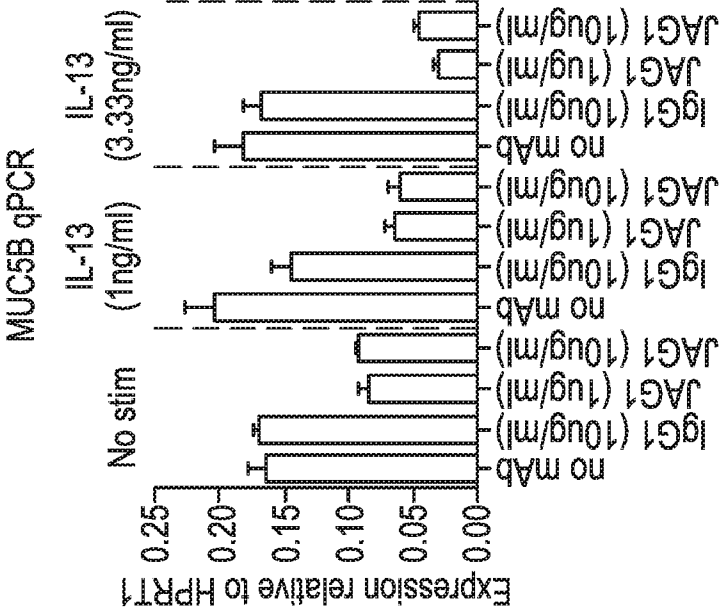
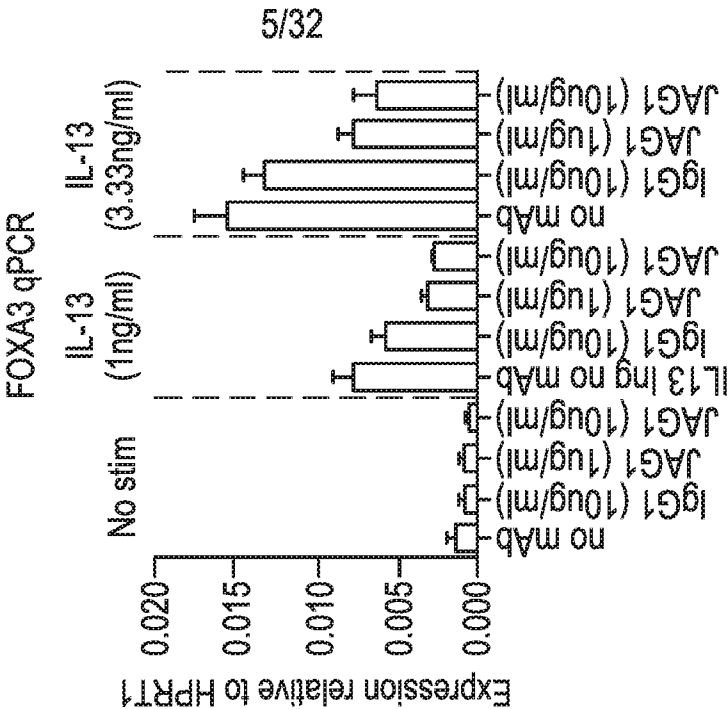


FIG. 3C



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FIG. 3D

*HPRT probe HPRT primer set	Sequence
	5'-/56-FAM/TCCAAAGAT/ZEN/GGTCAAGGTCGCAAG/3IABkFQ/-3'
	5'-ACTTCGTGGGGTCCTTTTC-3'
	5'-CTTTGCTTTCCTTGGTCAGG-3'
*MUC5AC probe MUC5AC primer set	Sequence
	5'-/56-FAM/CGTTTGACG/ZEN/GGAAGCAATACACGG/3IABkFQ/-3'
	5'-TACCTGCTCTGTGCTTGGAG-3'
	5'-AGGGCTTGGTCAGCACATA-3'
*MUC5B probe MUC5B primer set	Sequence
	5'-/56-FAM/AACCCCGTA/ZEN/GAAGGTGCCATTGT/3IABkFQ/-3'
	5'-CCAGAGAGGCAGGTACACAT-3'
	5'-GCAGACCTCAGCTGTGTT-3'

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FIG. 4A

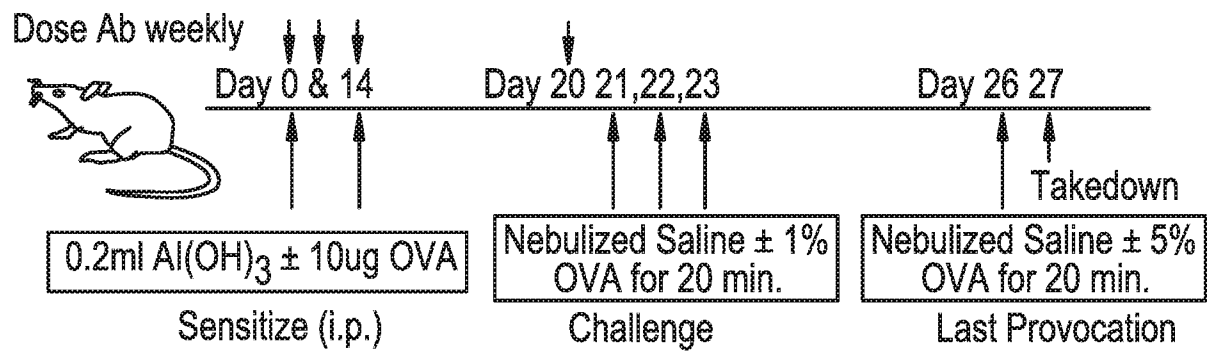


FIG. 4B

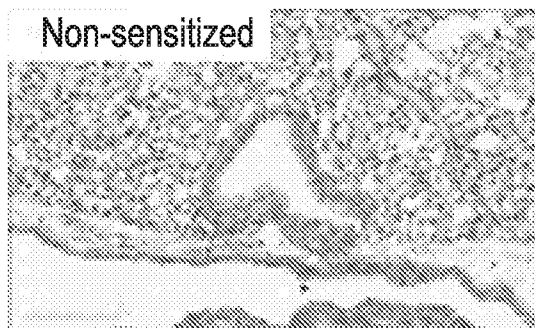


FIG. 4C

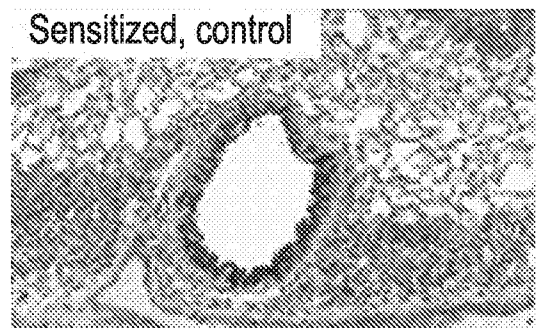


FIG. 4D

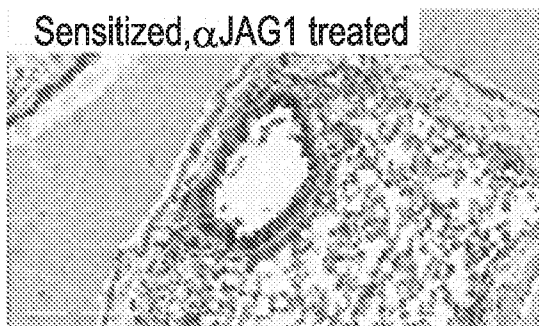
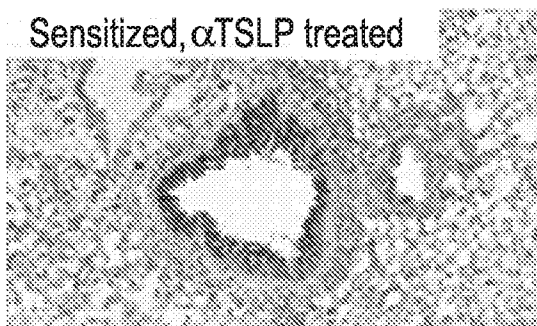


FIG. 4E



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FIG. 4F

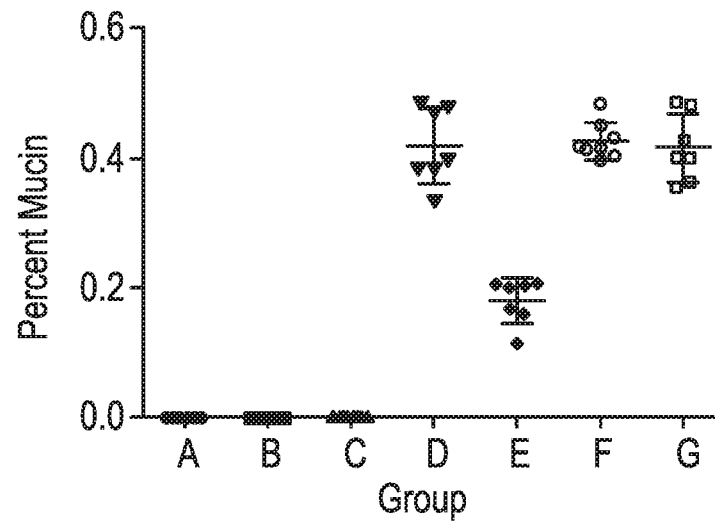
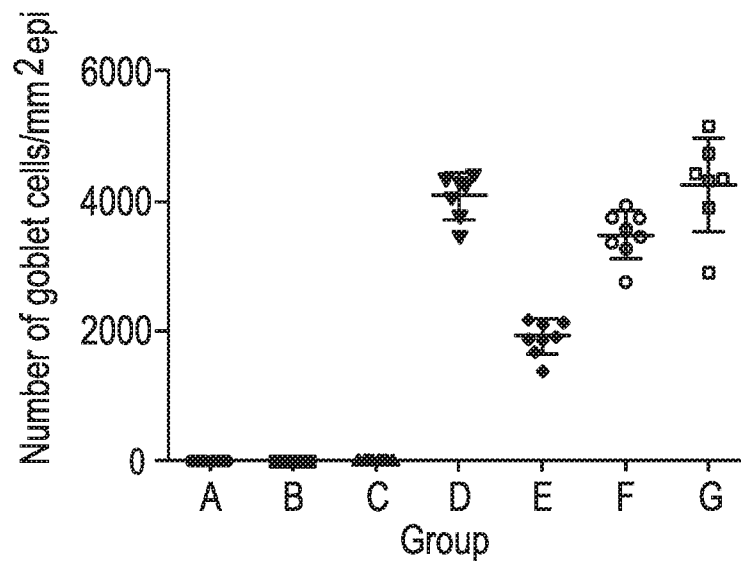


FIG. 4G



Experimental Group	Drug
Group A - Saline/Saline	Vehicle
Group B - Saline/Saline	Jag1 (80mpk)
Group C - Saline/Saline	Isotype Control (80 mpk)
Group D - OVA/OVA	Vehicle
Group E - OVA/OVA	Jag1
Group F - OVA/OVA	Isotype Control
Group G - OVA/OVA	aTSLP (20mpk)

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FIG. 5A

Immunization (IP) on day 0 & 14

Ab administration (IV) on day 0, 7, 14 & 20

OVA challenge (IH) on day 21, 23, 24 & 26

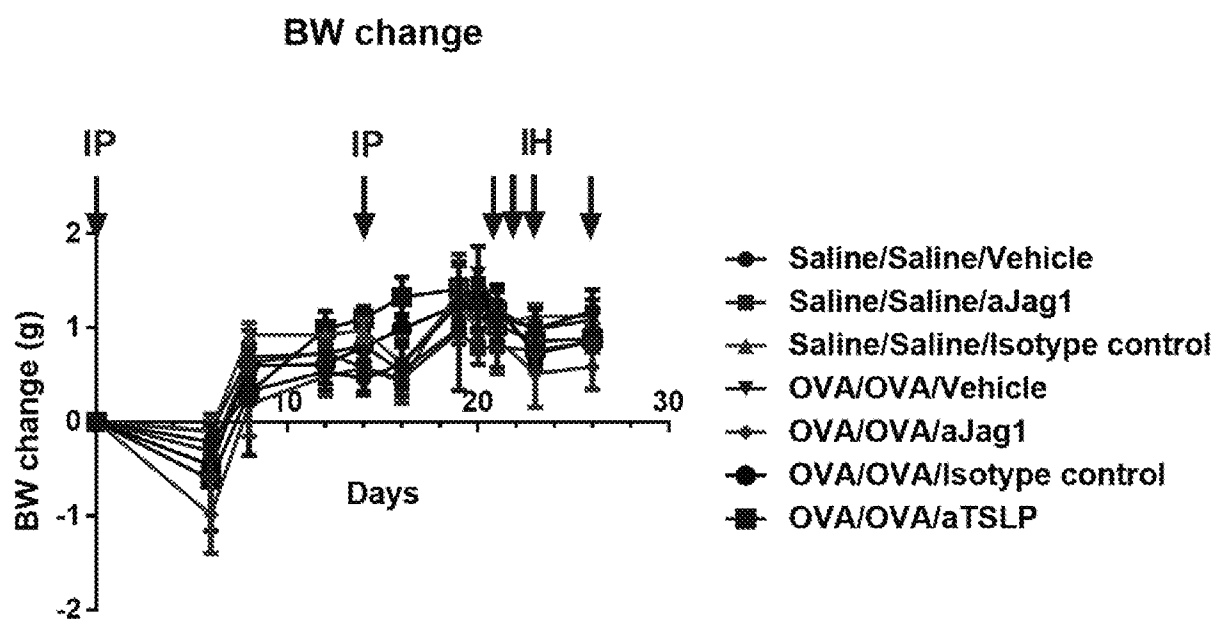
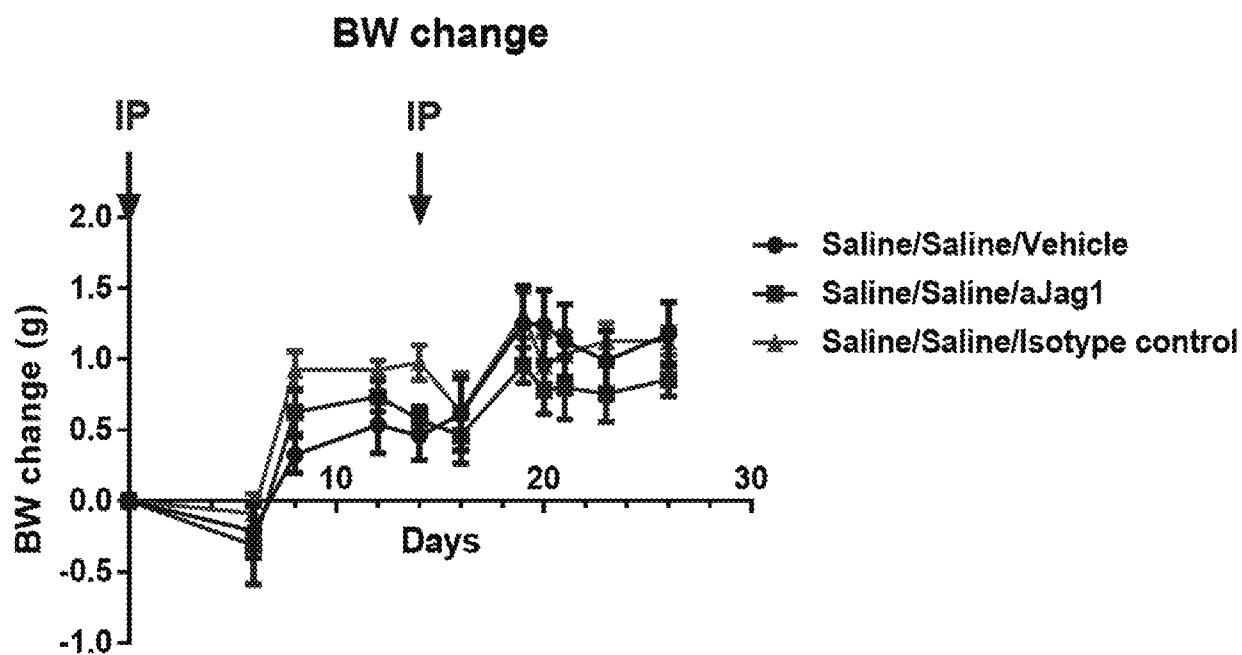
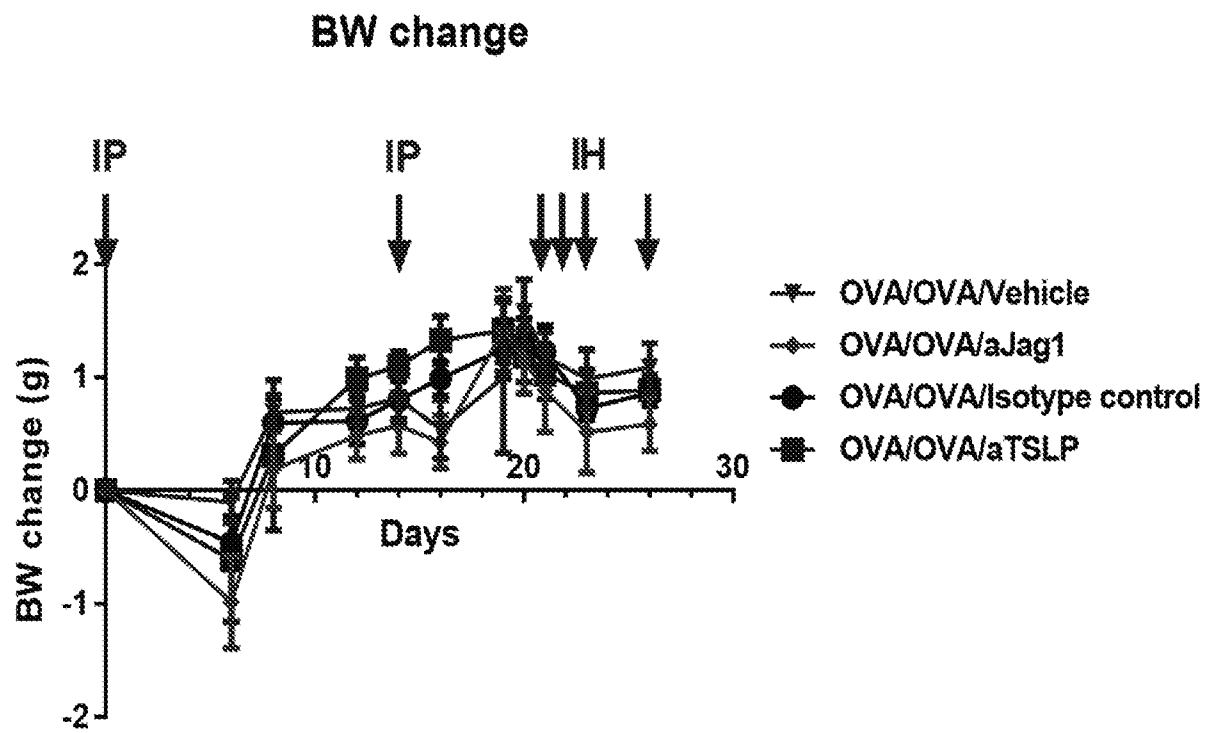


FIG. 5B



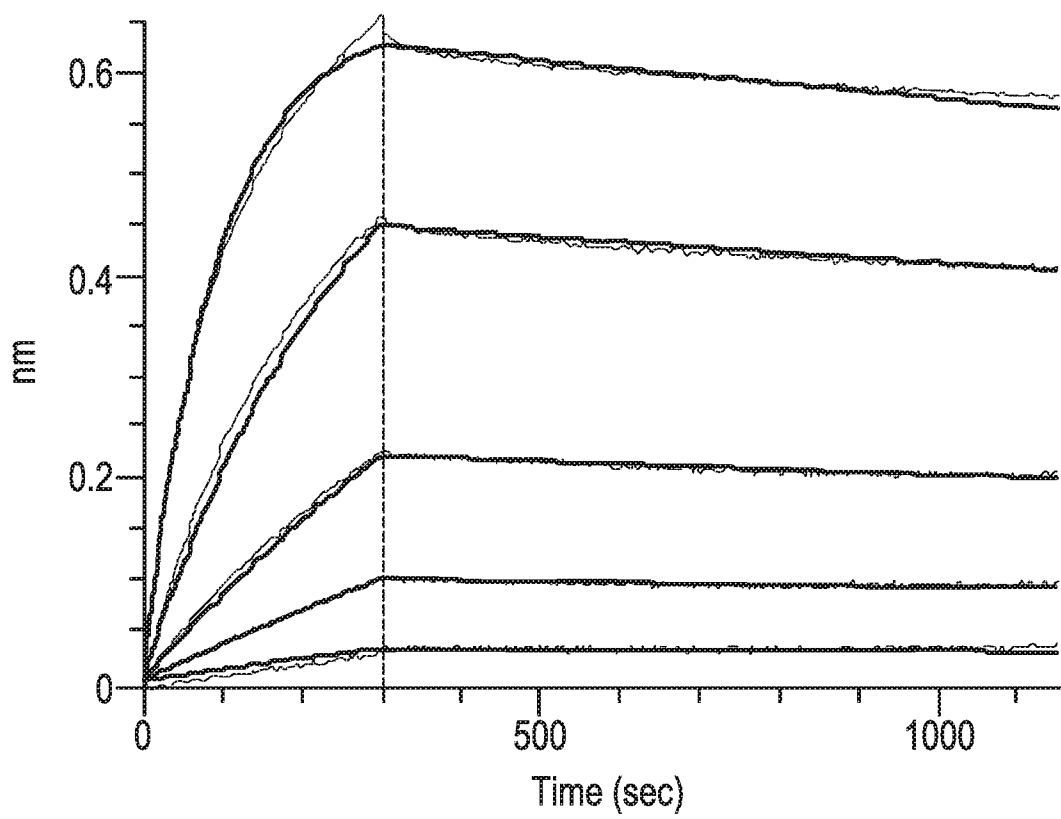
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FIG. 5C



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FIG. 6



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FIG. 7A

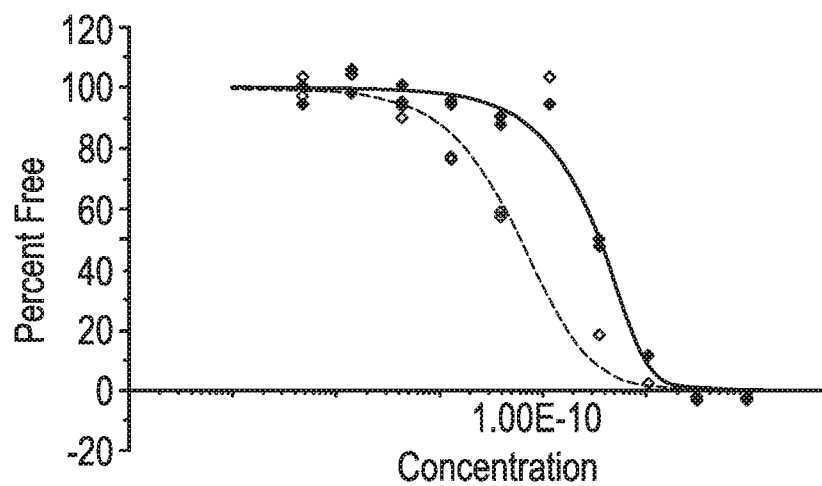


FIG. 7B

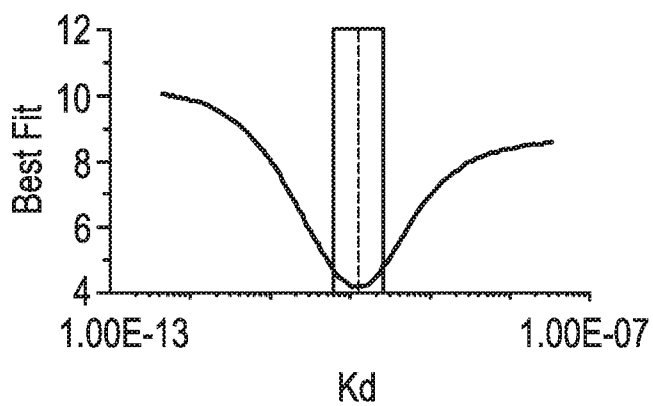
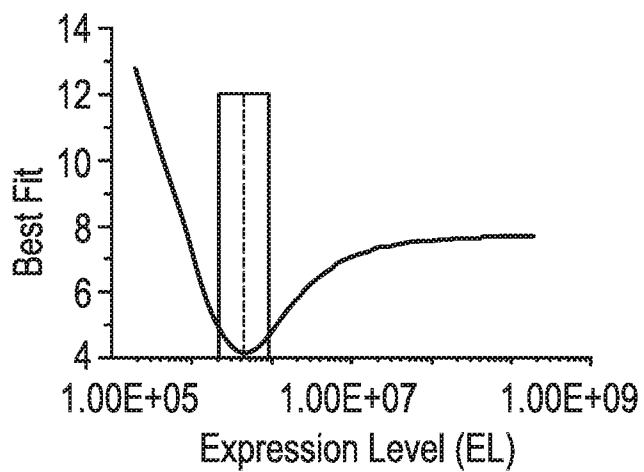


FIG. 7C



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FIG. 8A

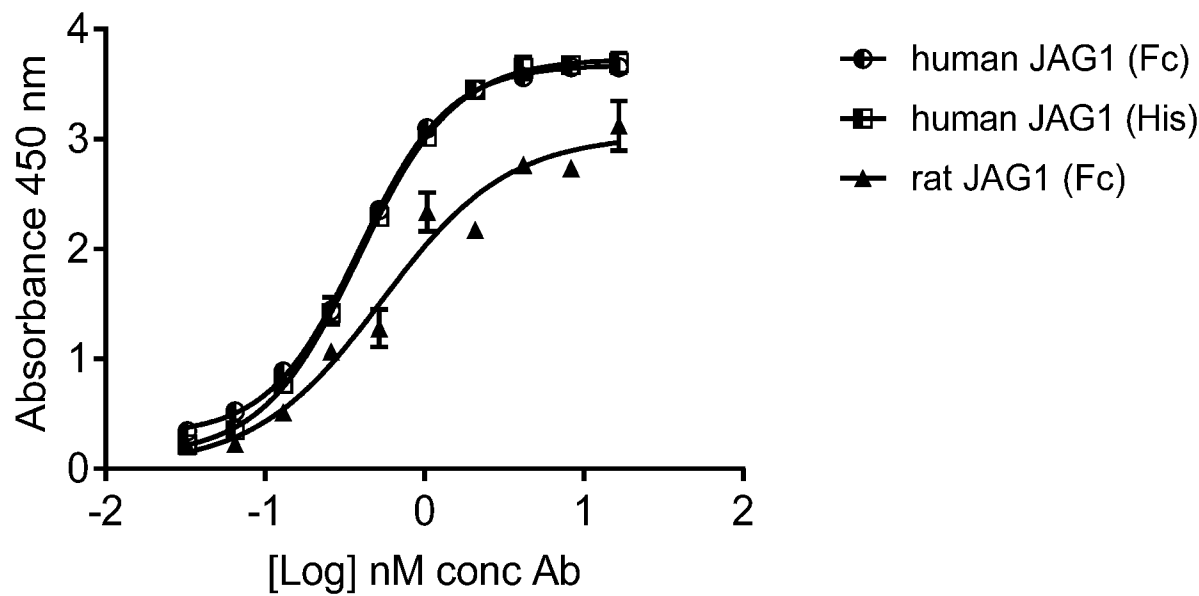
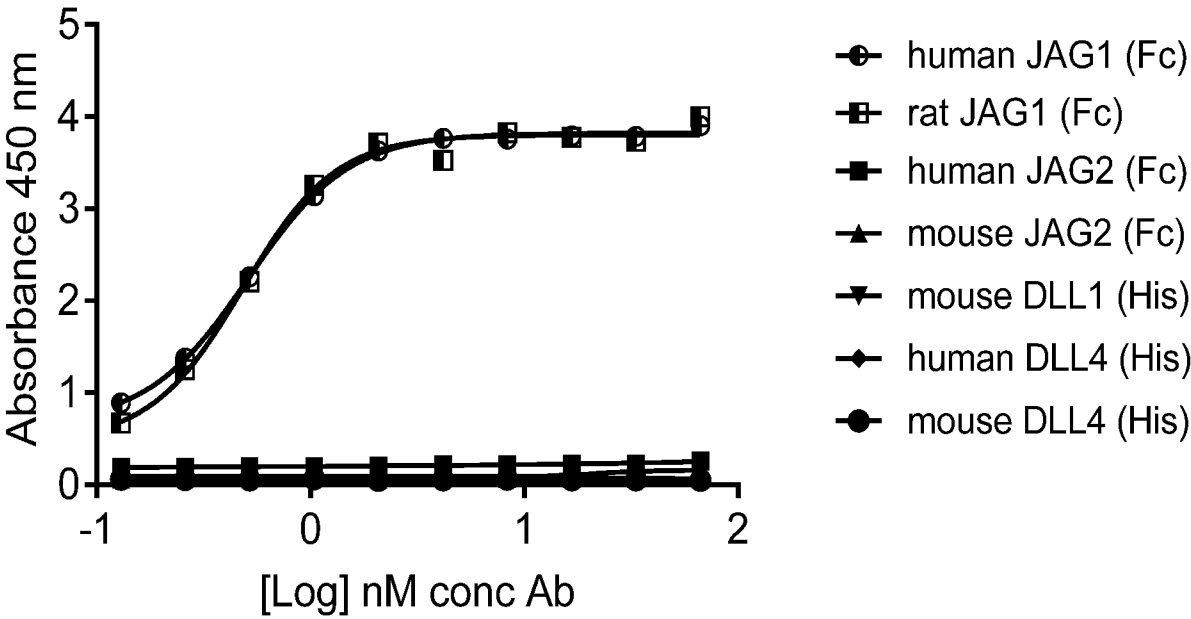


FIG. 8B



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FIG. 9

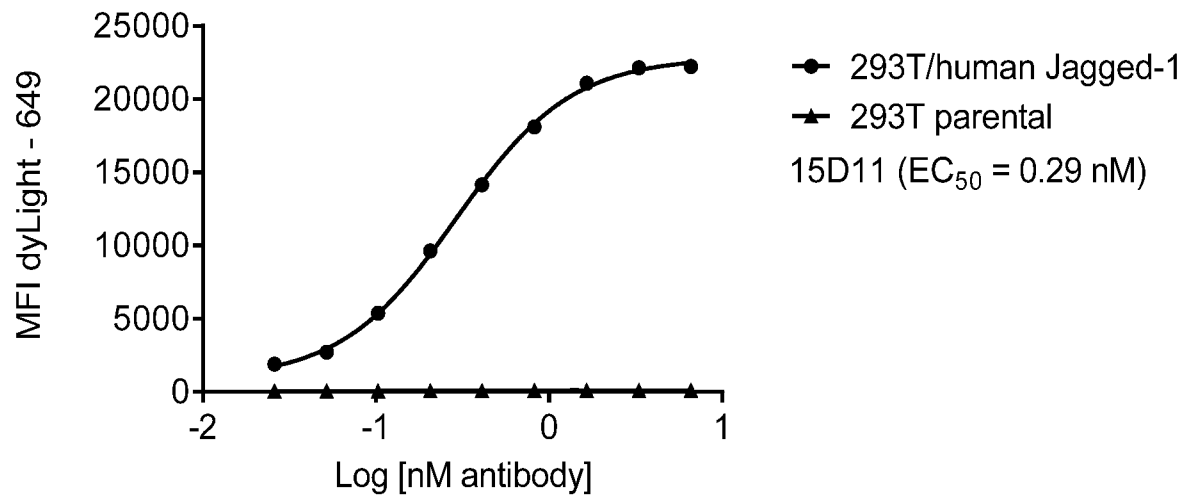
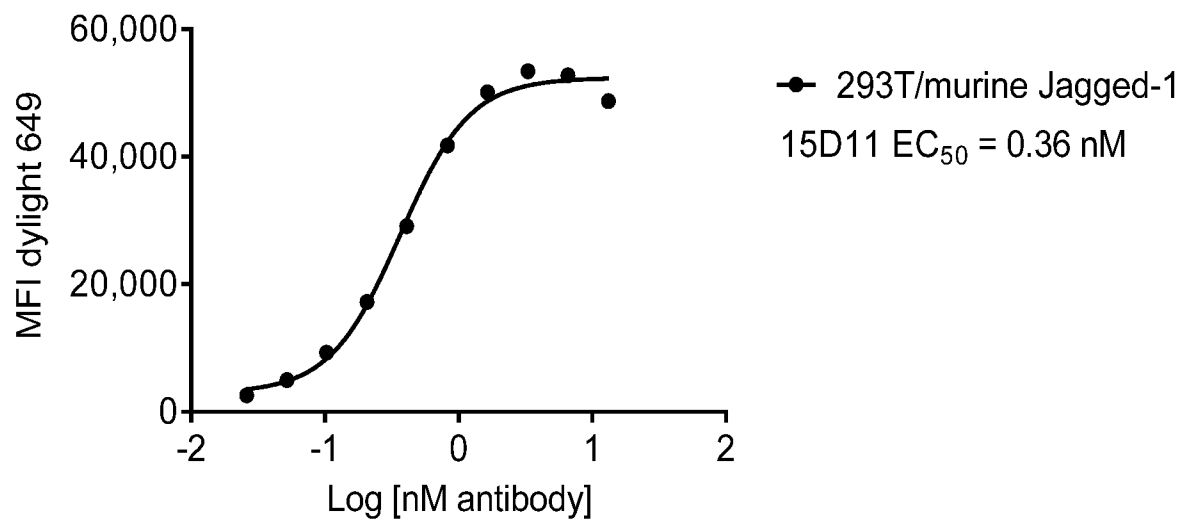


FIG. 10



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FIG. 11

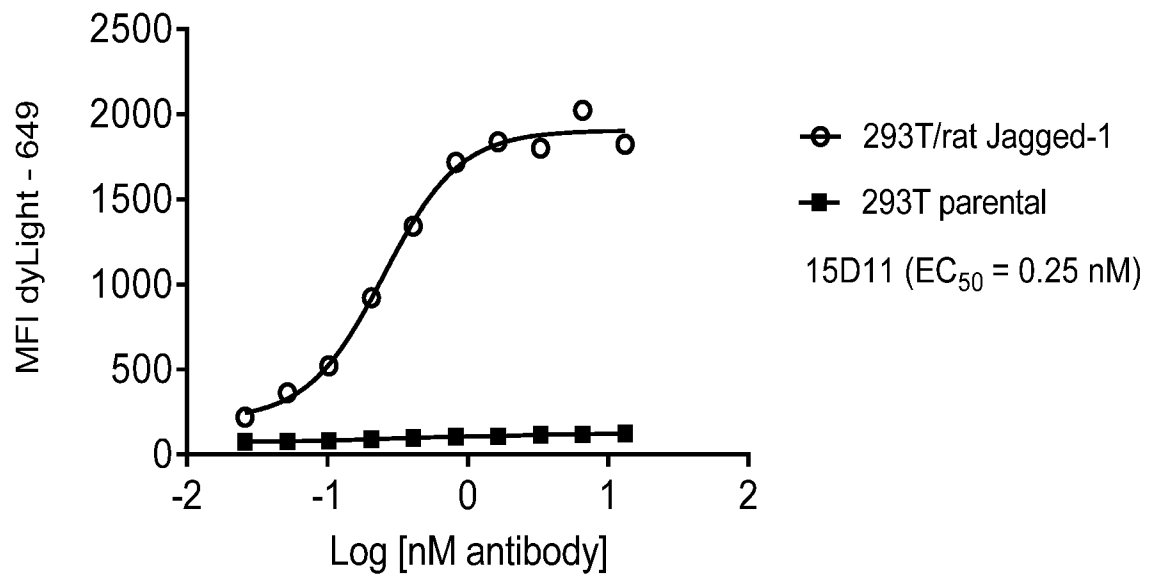
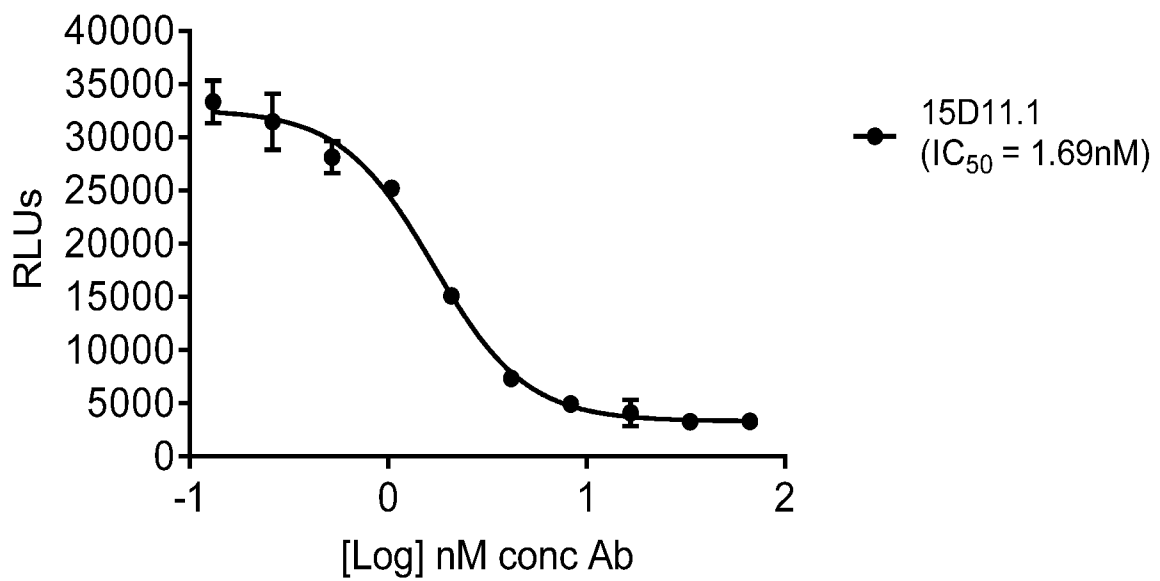
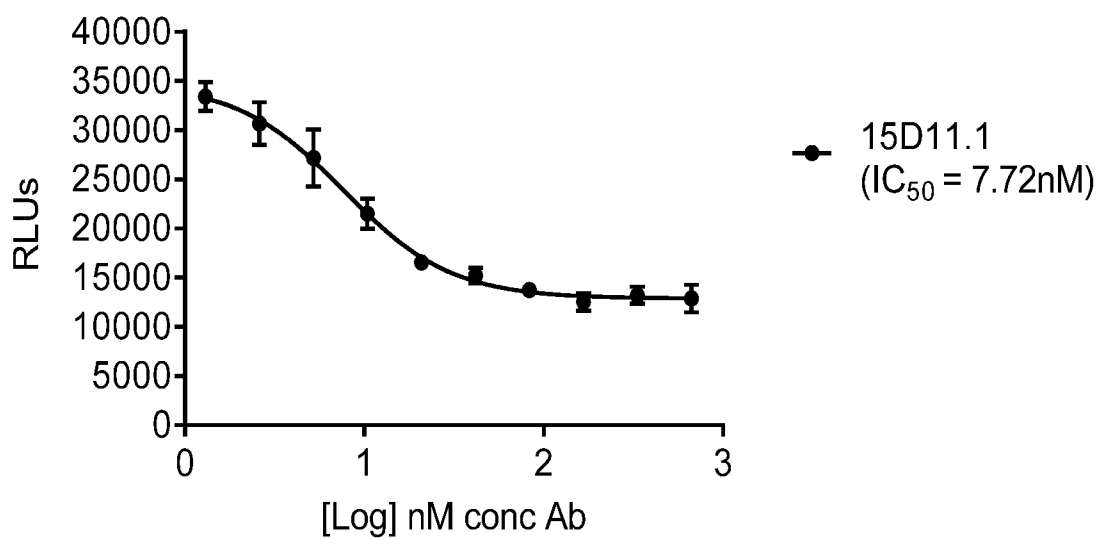


FIG. 12



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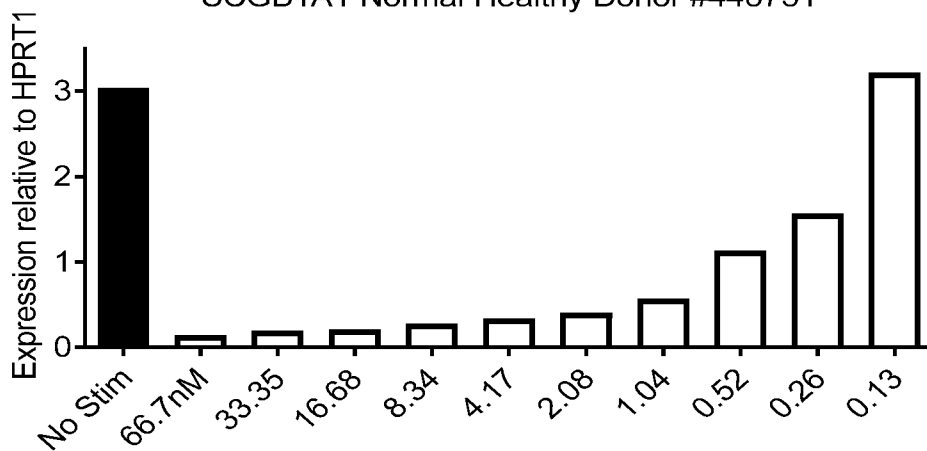
FIG. 13



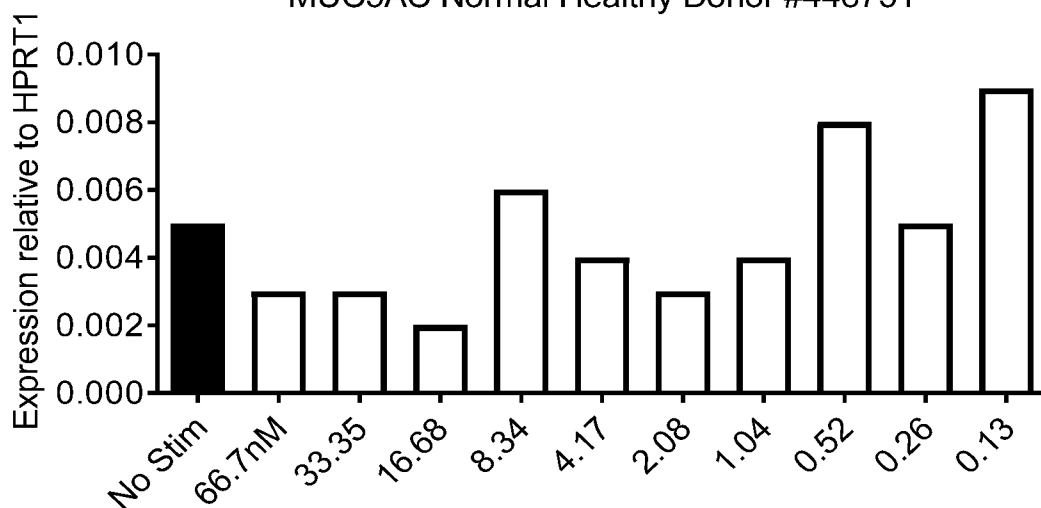
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FIG. 14A

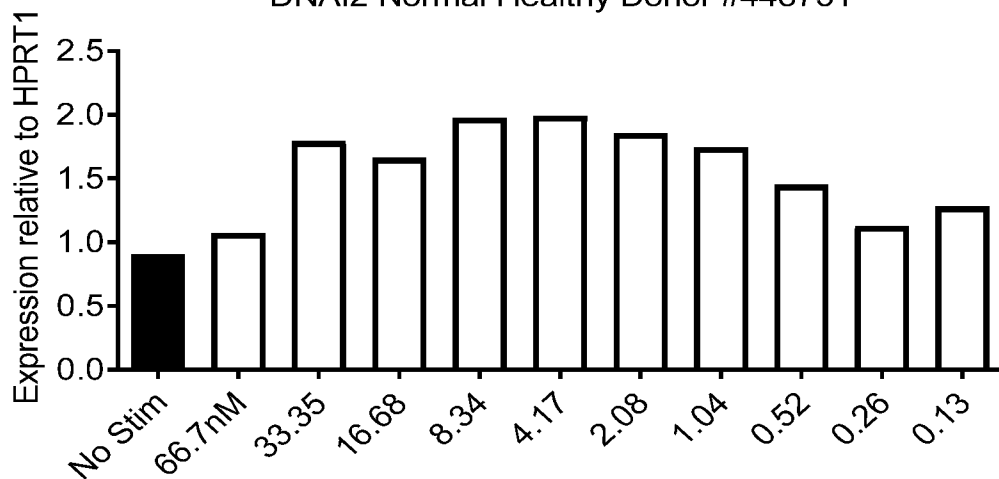
SCGB1A1 Normal Healthy Donor #448751

**FIG. 14B**

MUC5AC Normal Healthy Donor #448751

**FIG. 14C**

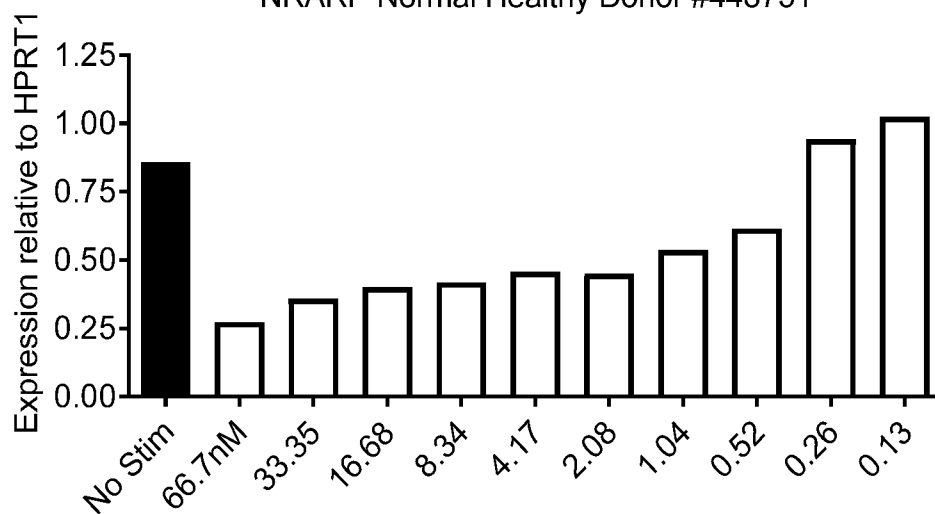
DNAI2 Normal Healthy Donor #448751



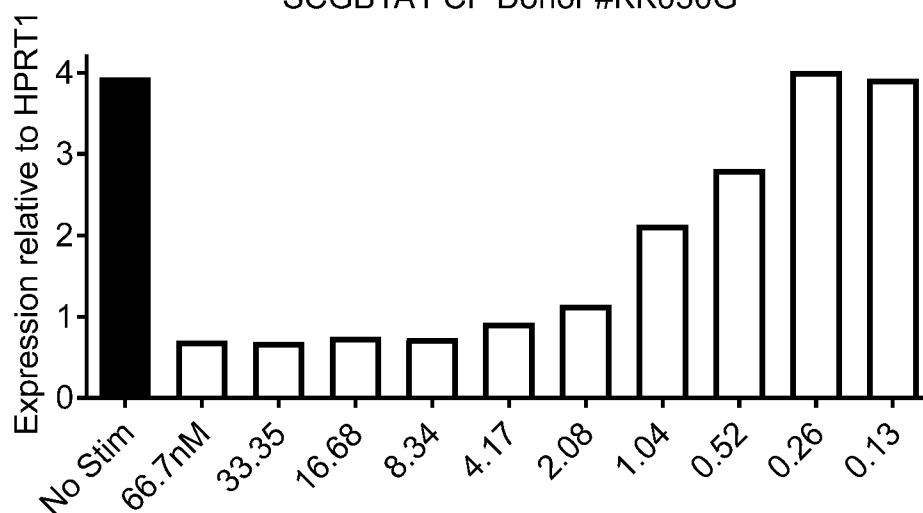
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FIG. 14D

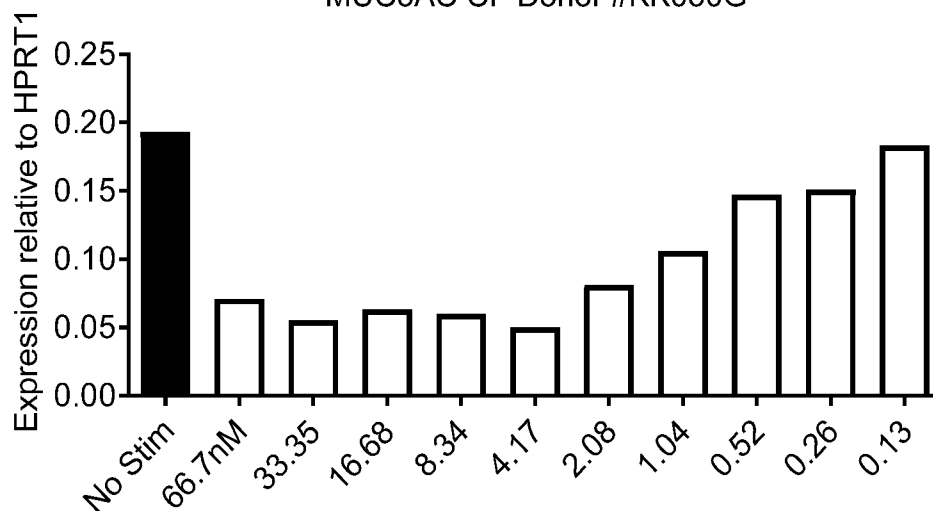
NRARP Normal Healthy Donor #448751

**FIG. 14E**

SCGB1A1 CF Donor #KK030G

**FIG. 14F**

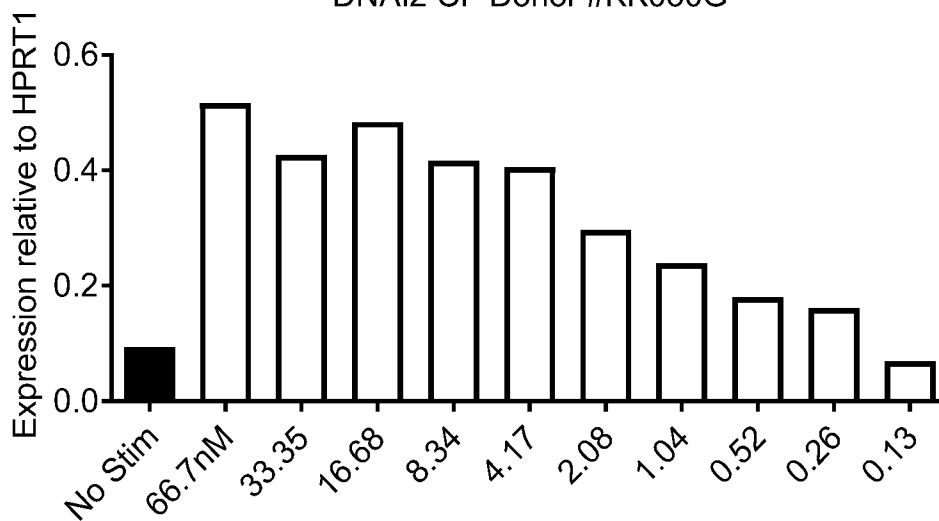
MUC5AC CF Donor #KK030G



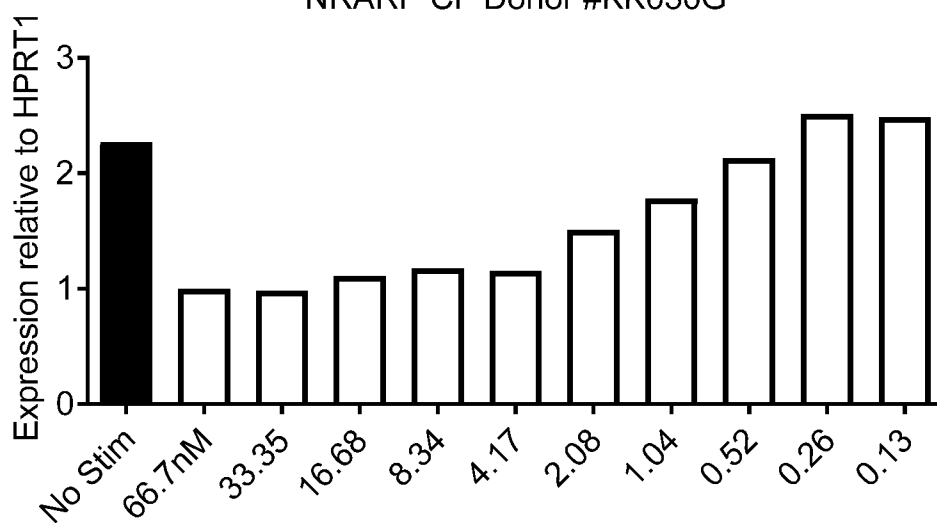
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FIG. 14G

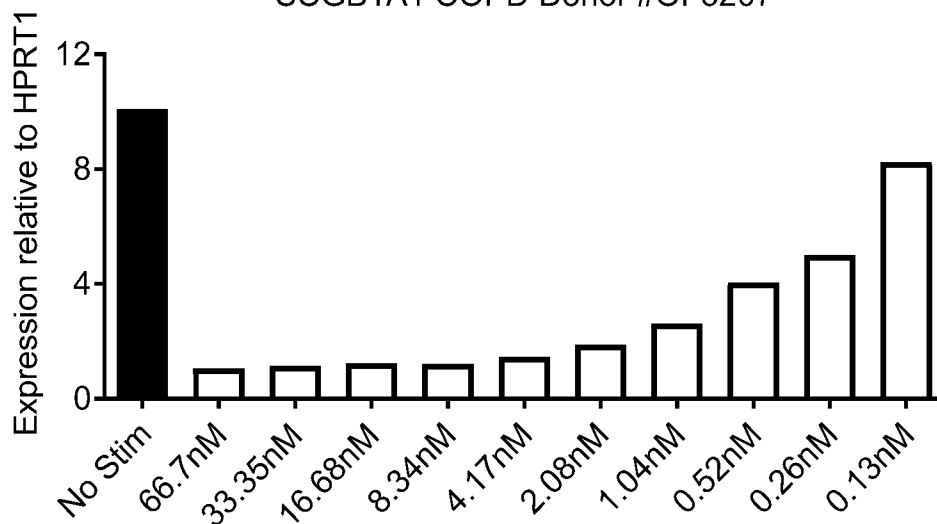
DNAI2 CF Donor #KK030G

**FIG. 14H**

NRARP CF Donor #KK030G

**FIG. 14I**

SCGB1A1 COPD Donor #OF3207



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FIG. 14J

MUC5AC COPD Donor #OF3207

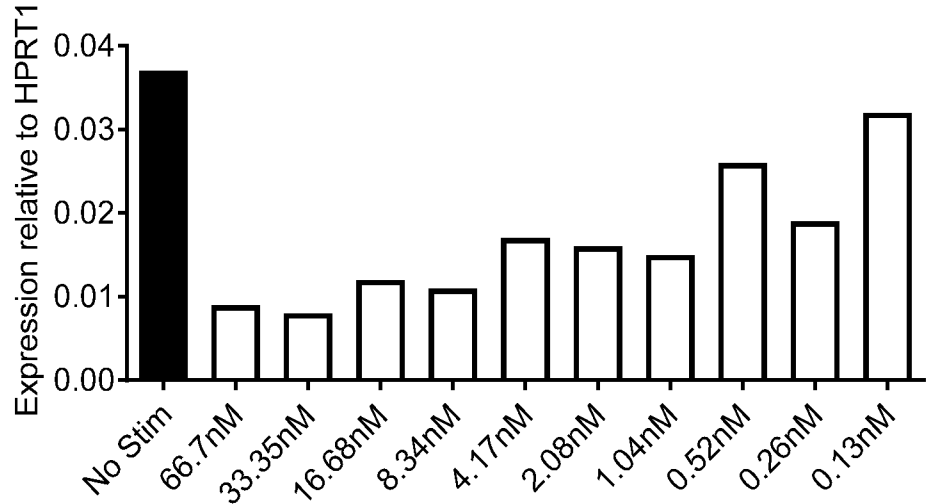


FIG. 14K

DNAI2 COPD Donor #OF3207

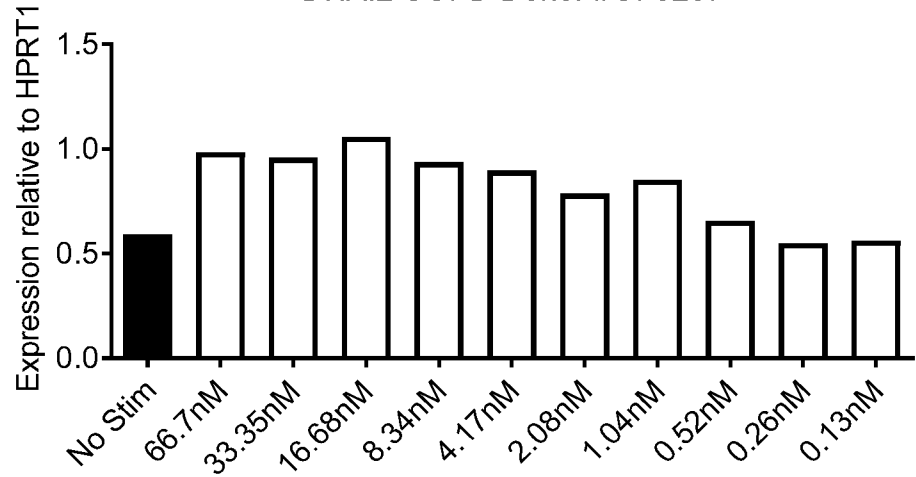
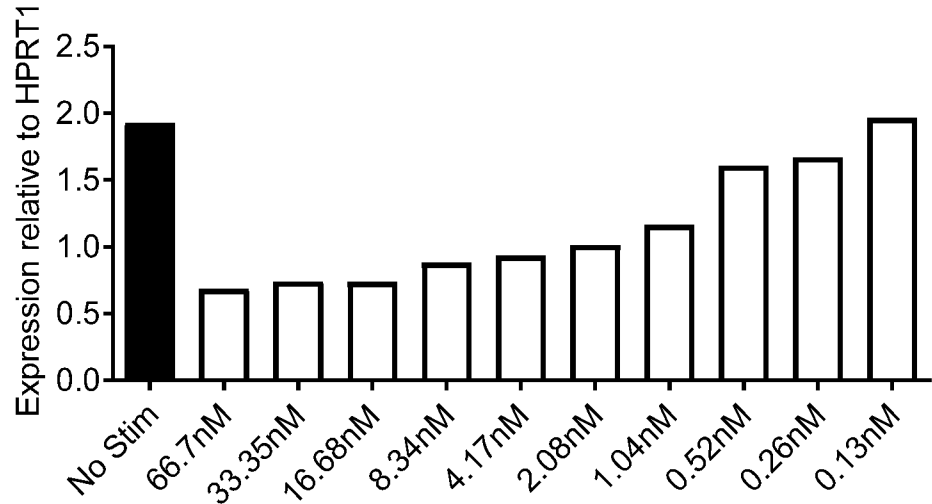


FIG. 14L

NRARP COPD Donor #OF3207



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FIG. 15A

SCGB1A1 Normal Healthy Donor #448751

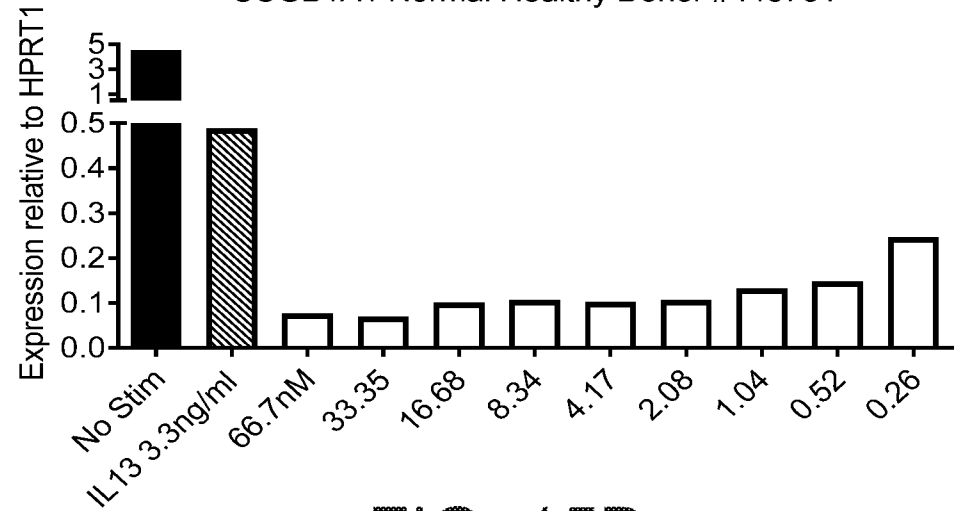


FIG. 15B

MUC5AC Normal Healthy Donor #448751

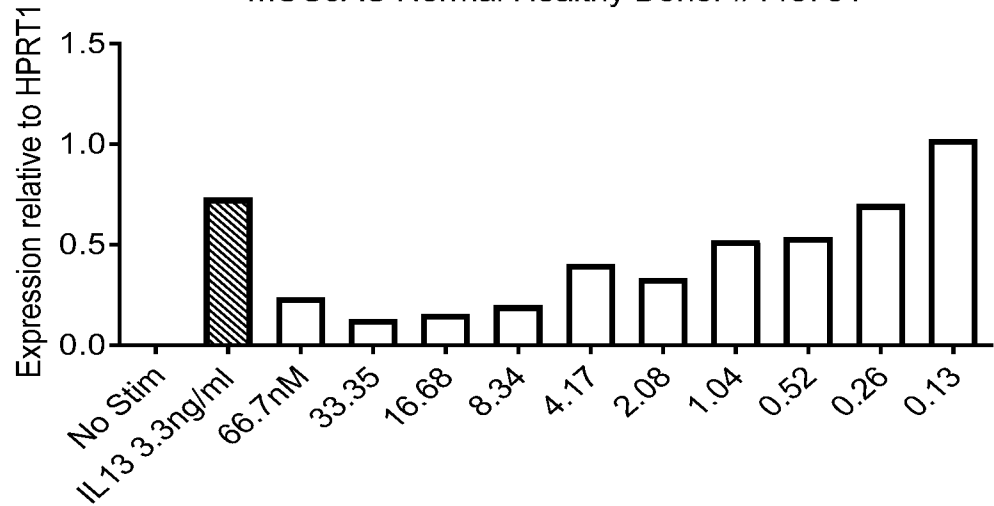
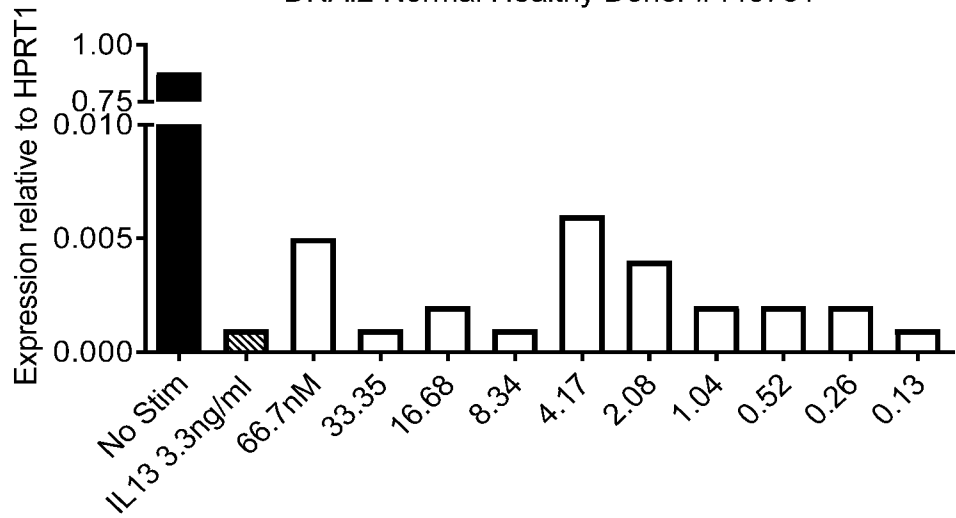


FIG. 15C

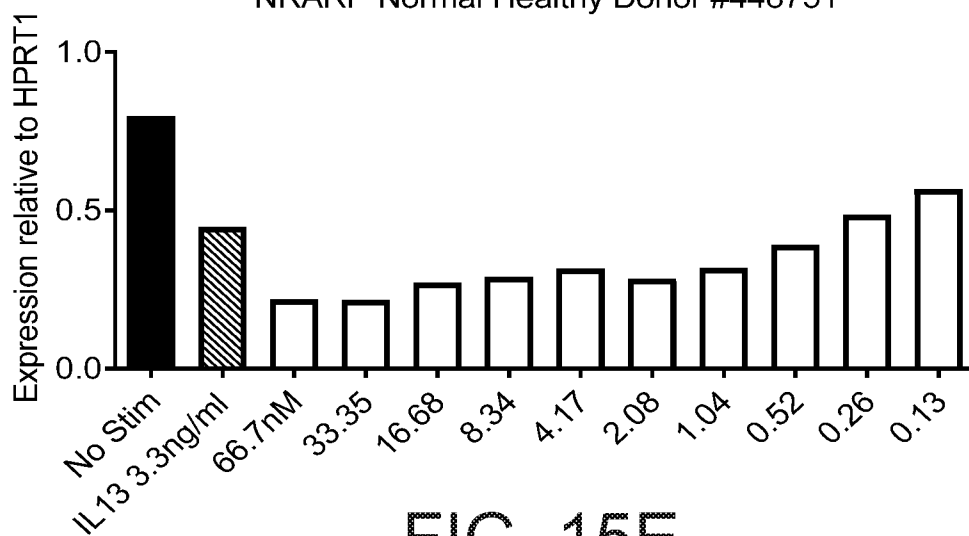
DNAI2 Normal Healthy Donor #448751



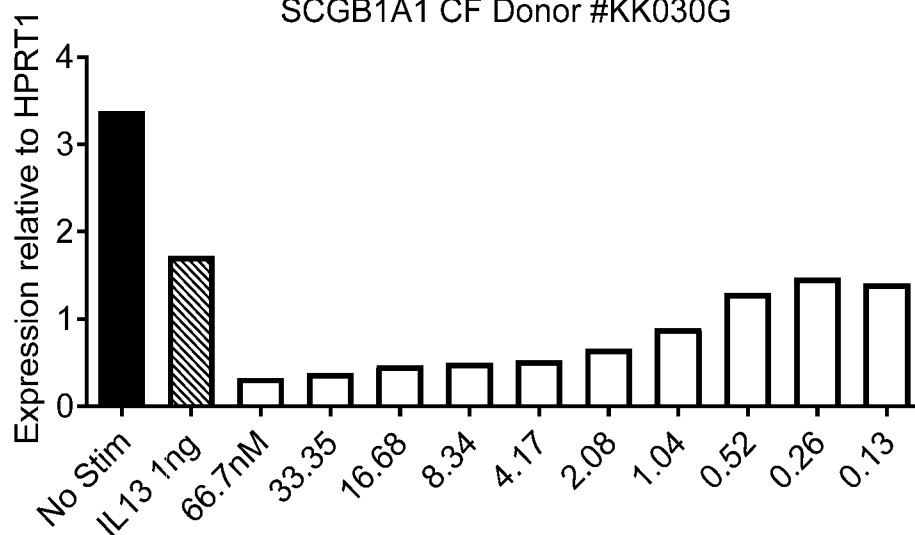
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FIG. 15D

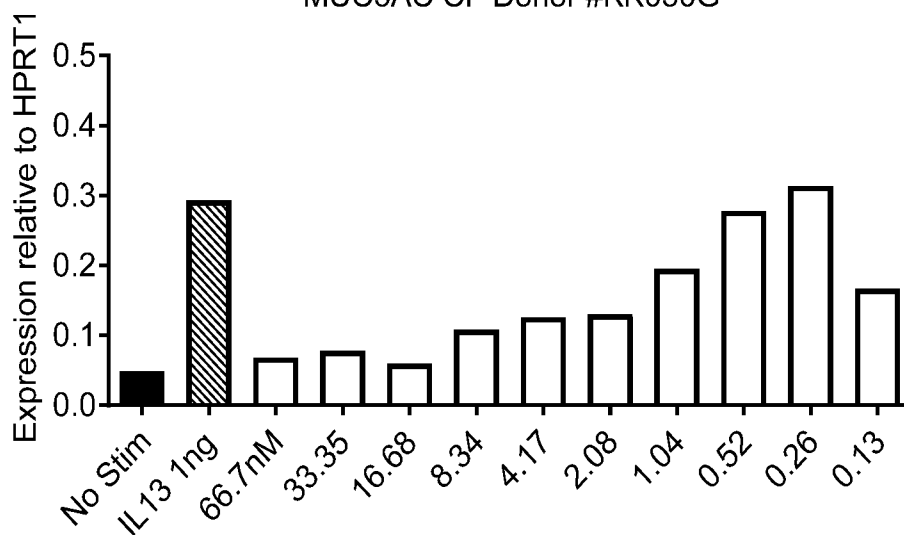
NRARP Normal Healthy Donor #448751

**FIG. 15E**

SCGB1A1 CF Donor #KK030G

**FIG. 15F**

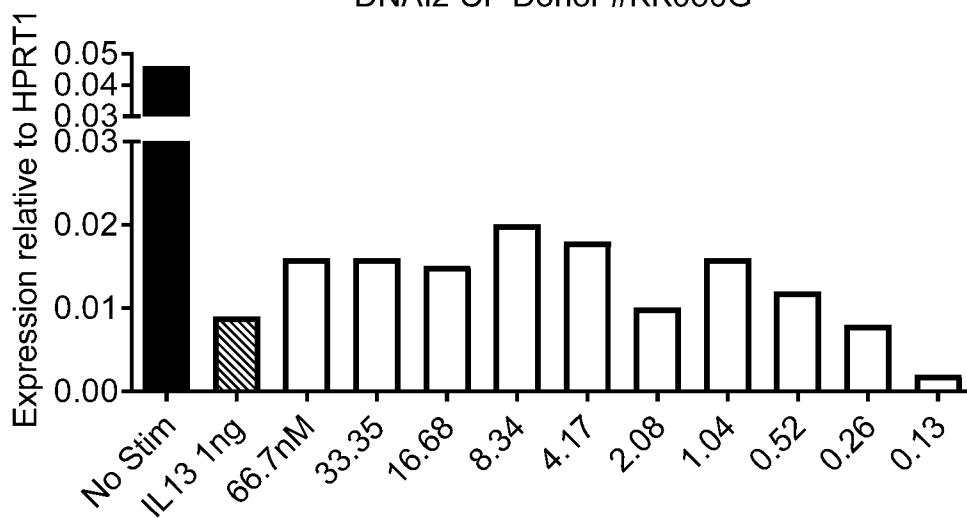
MUC5AC CF Donor #KK030G



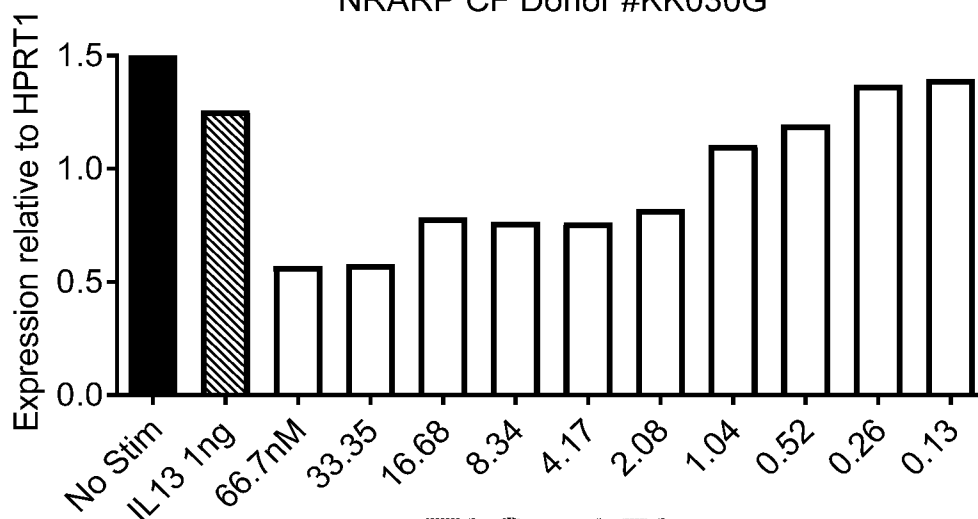
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FIG. 15G

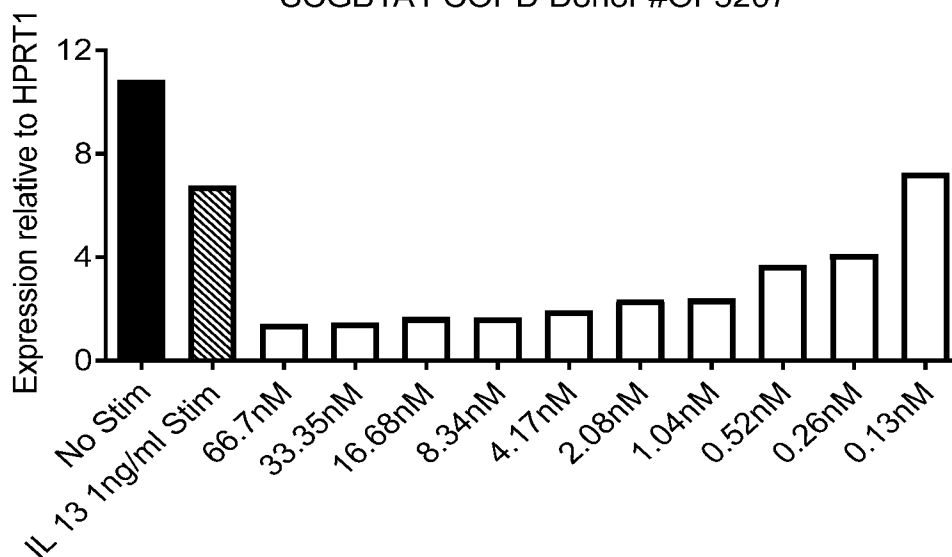
DNAI2 CF Donor #KK030G

**FIG. 15H**

NRARP CF Donor #KK030G

**FIG. 15I**

SCGB1A1 COPD Donor #OF3207



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FIG. 15J

MUC5AC COPD Donor #OF3207

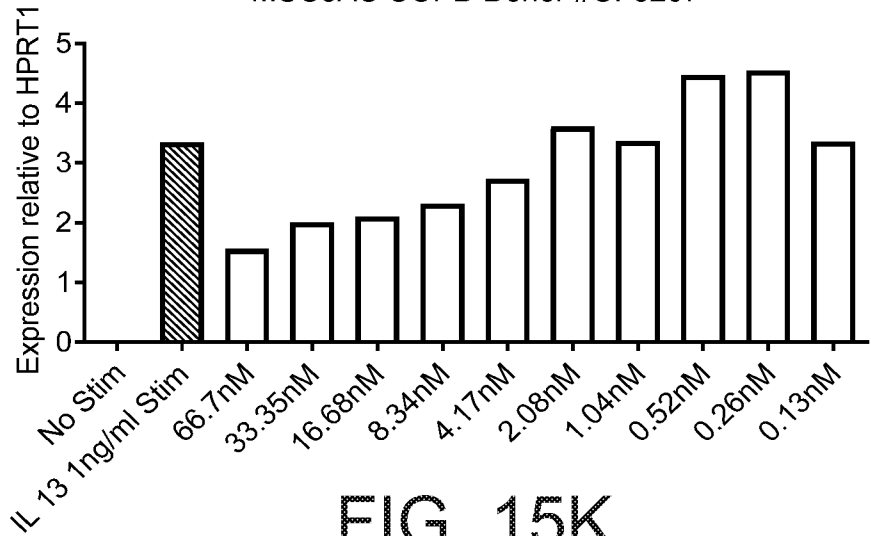


FIG. 15K

DNAI2 COPD Donor #OF3207

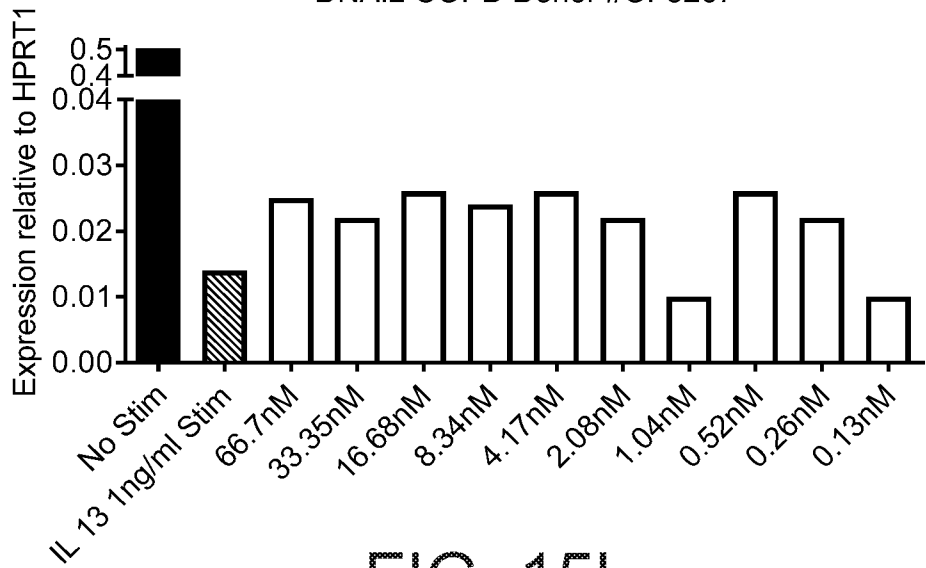
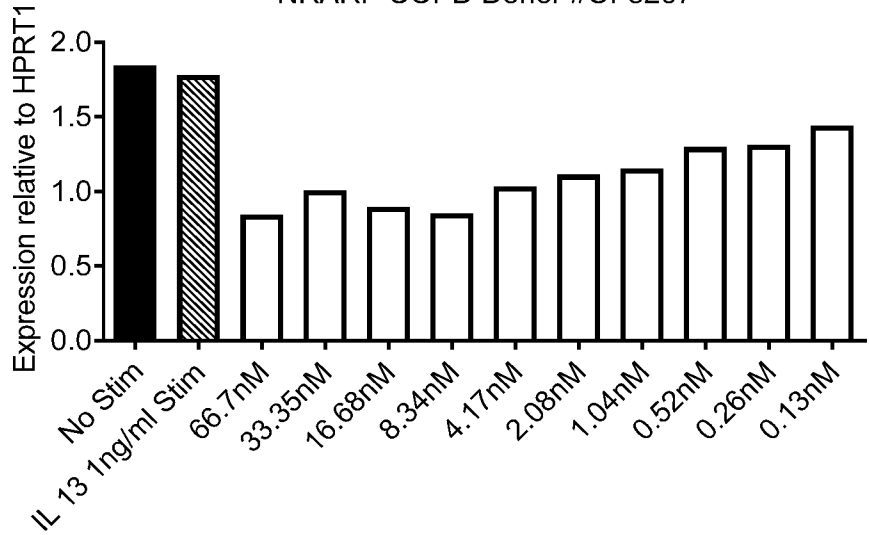


FIG. 15L

NRARP COPD Donor #OF3207



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FIG. 16A

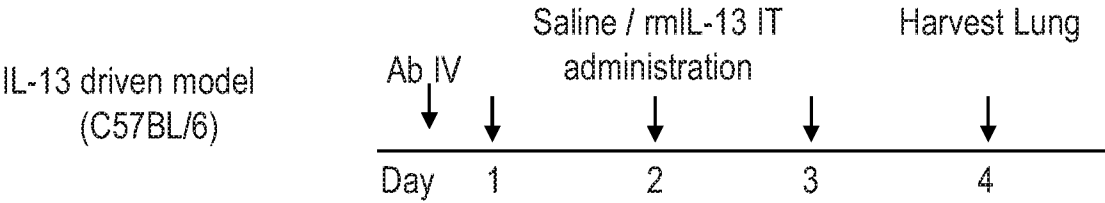


FIG. 16B

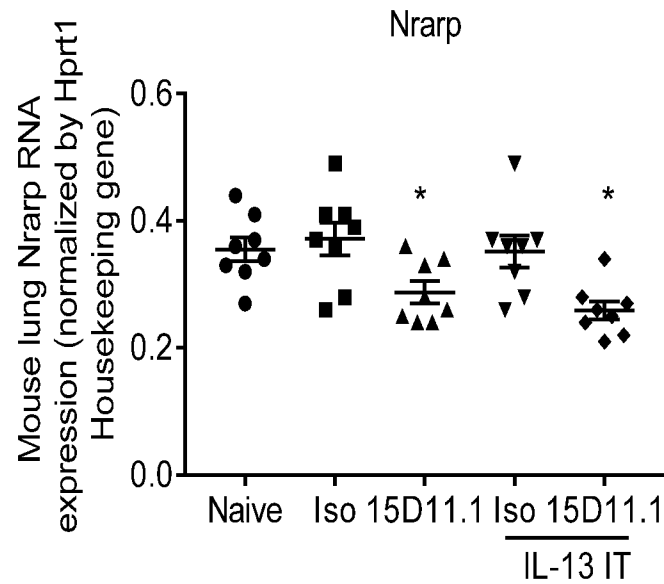


FIG. 16C

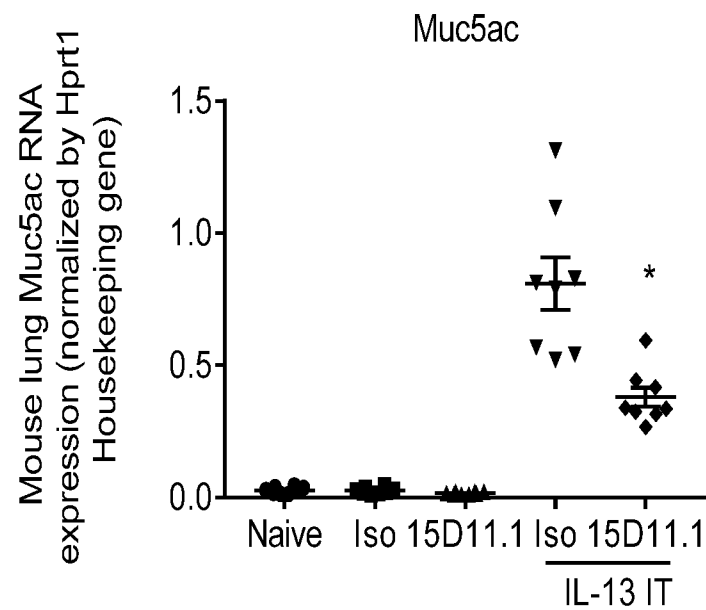


FIG. 17A

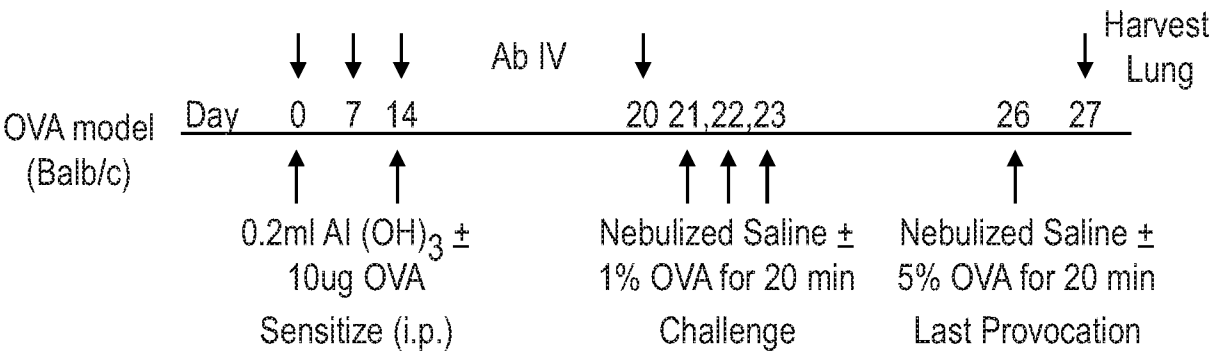
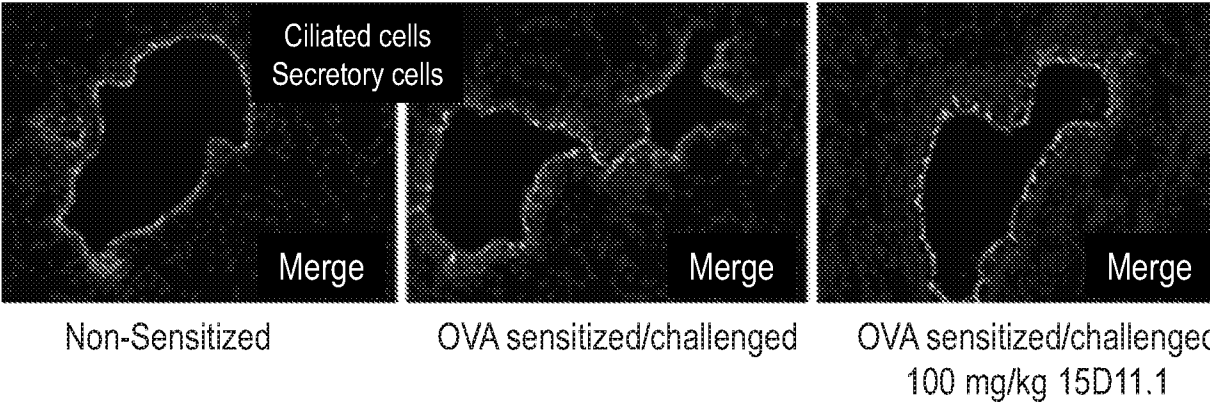


FIG. 17B



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FIG. 17C

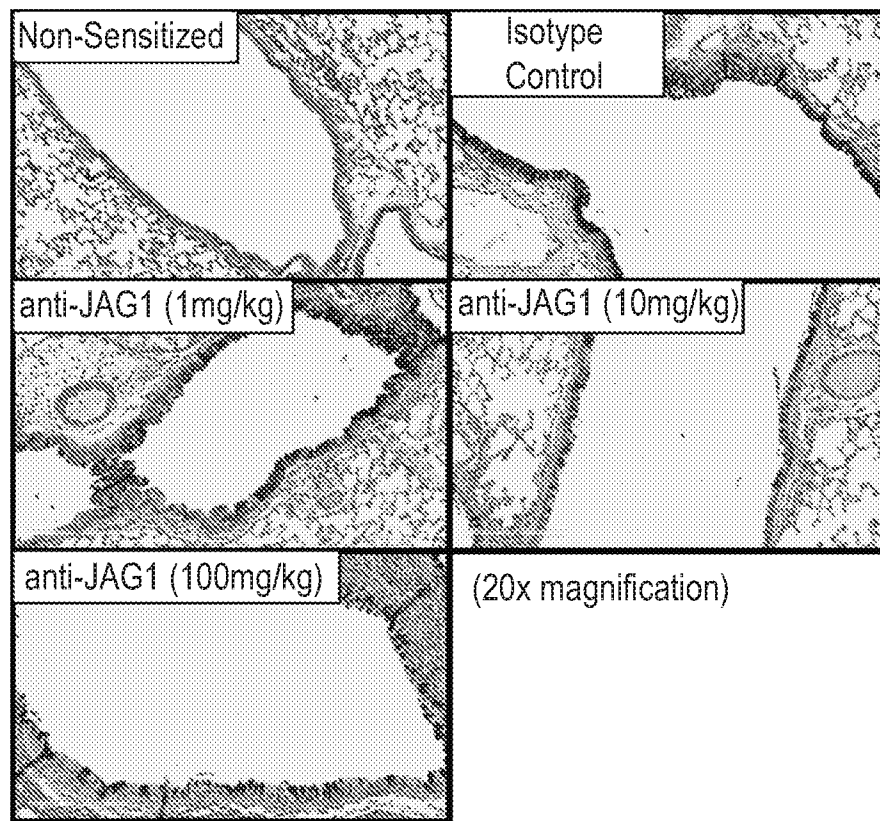
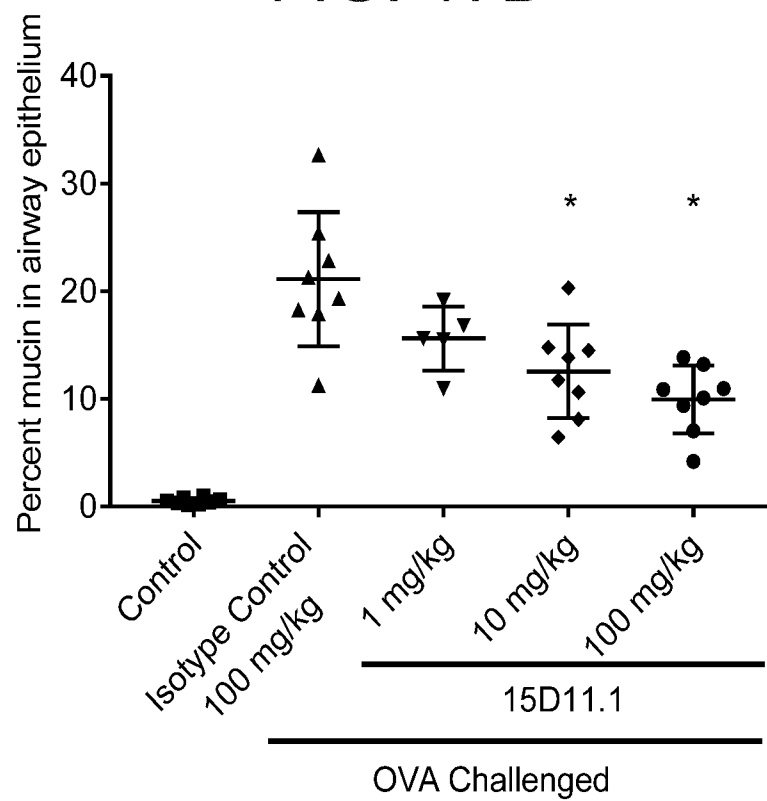


FIG. 17D



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FIG. 18A

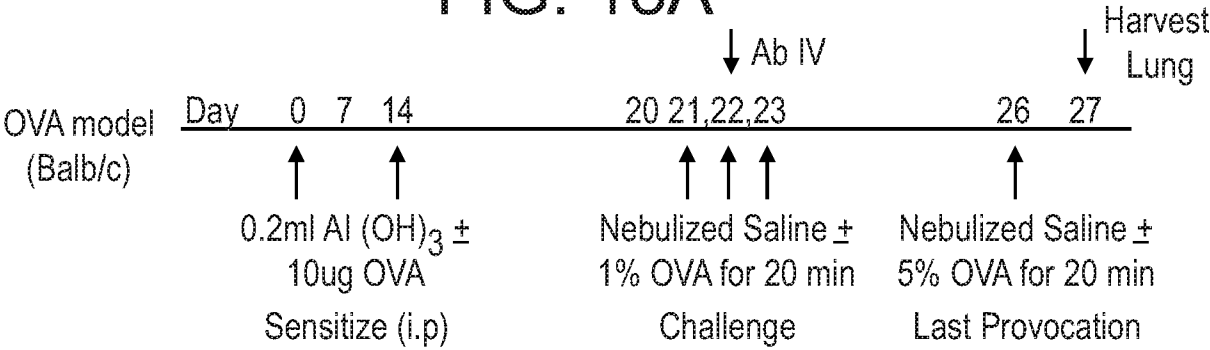


FIG. 18B

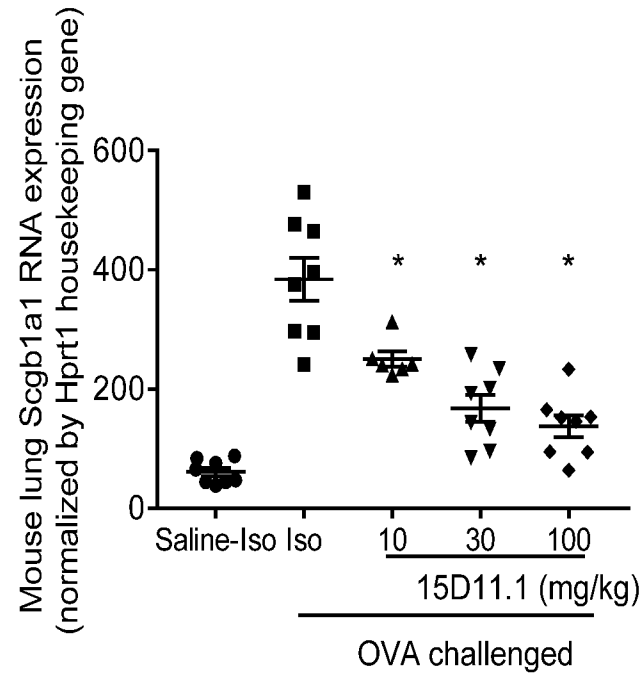


FIG. 18C

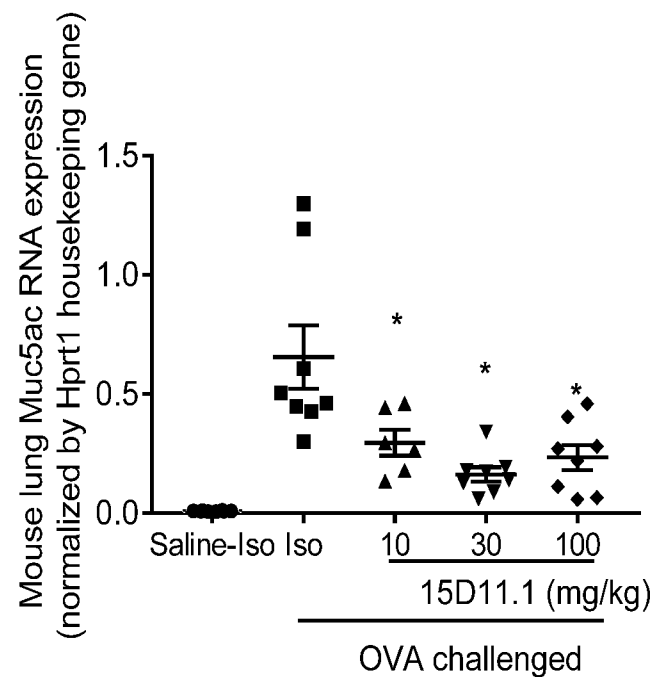


FIG. 18D

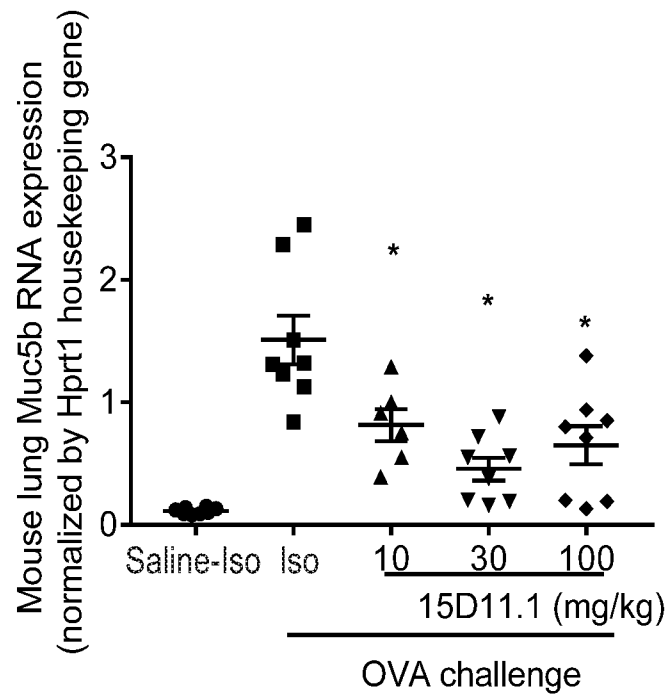
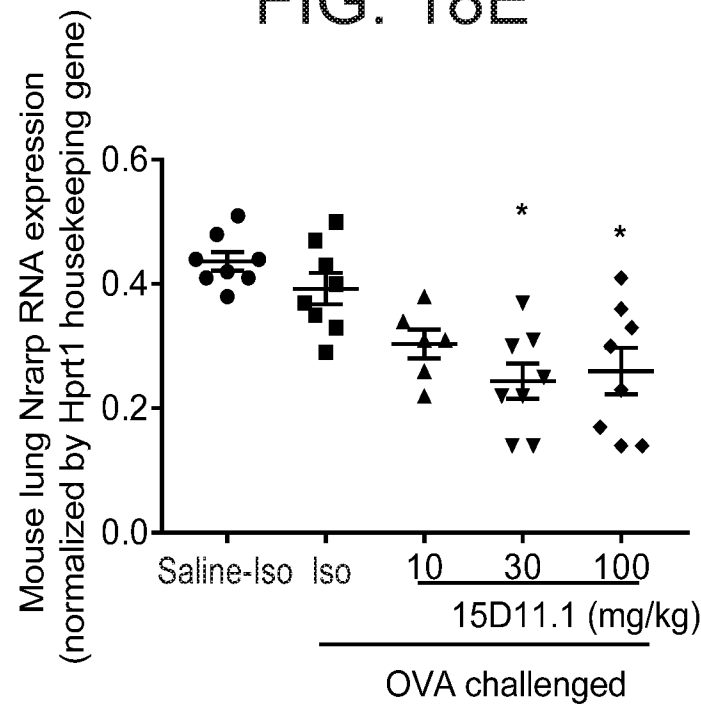
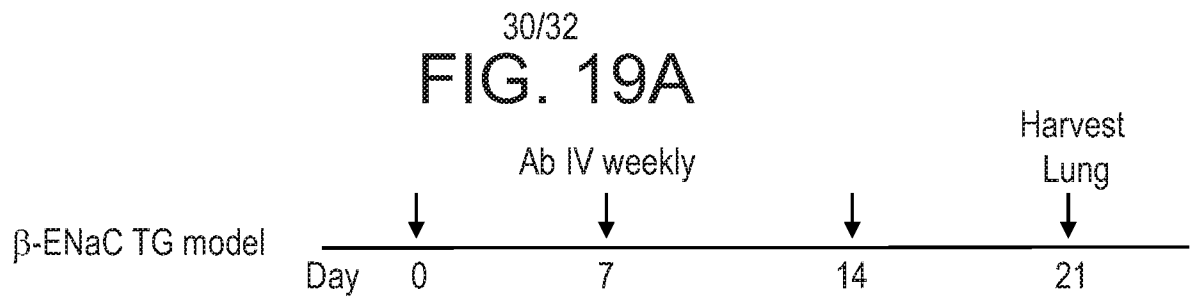
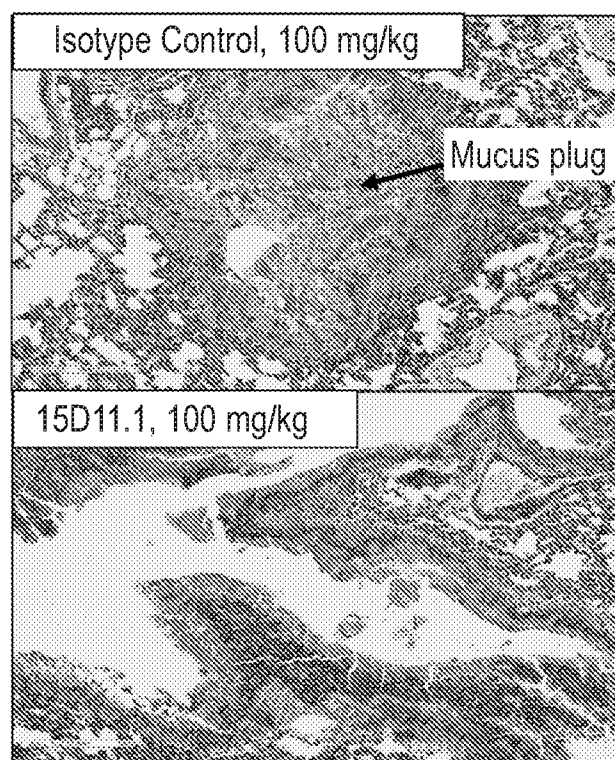
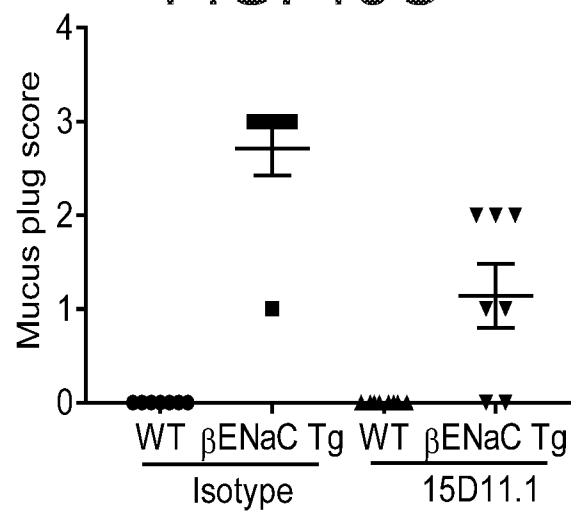


FIG. 18E



**FIG. 19B****FIG. 19C**

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FIG. 20A

Nasopharynx

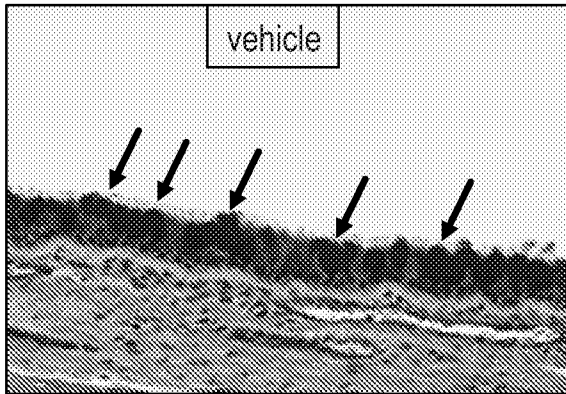


FIG. 20B

Trachea

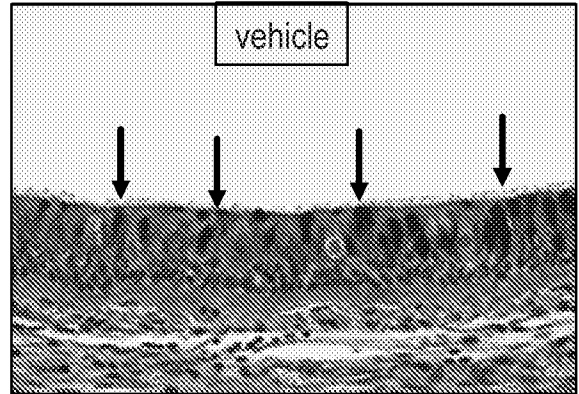


FIG. 20C

Bronchus

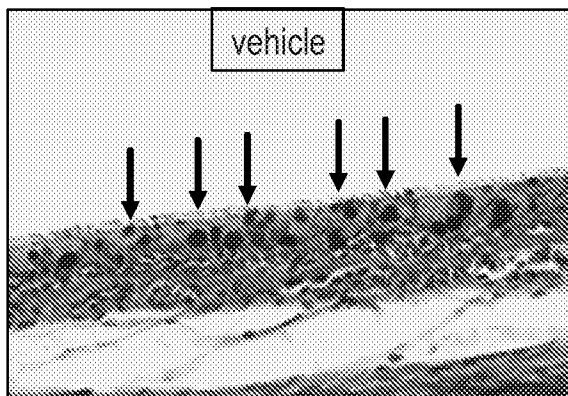


FIG. 20D

Nasopharynx

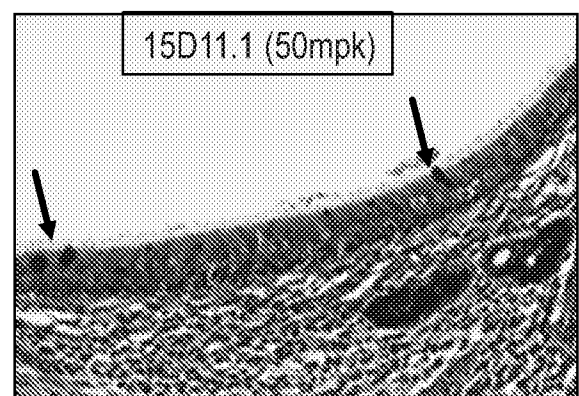


FIG. 20E

Trachea

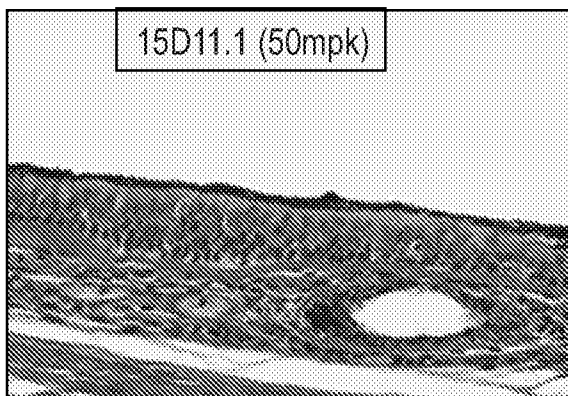
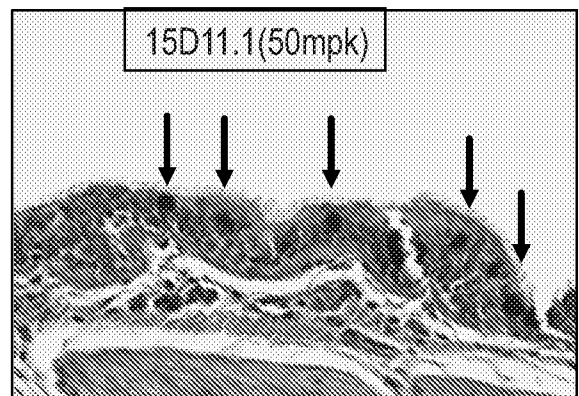


FIG. 20F

Bronchus



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FIG. 21A

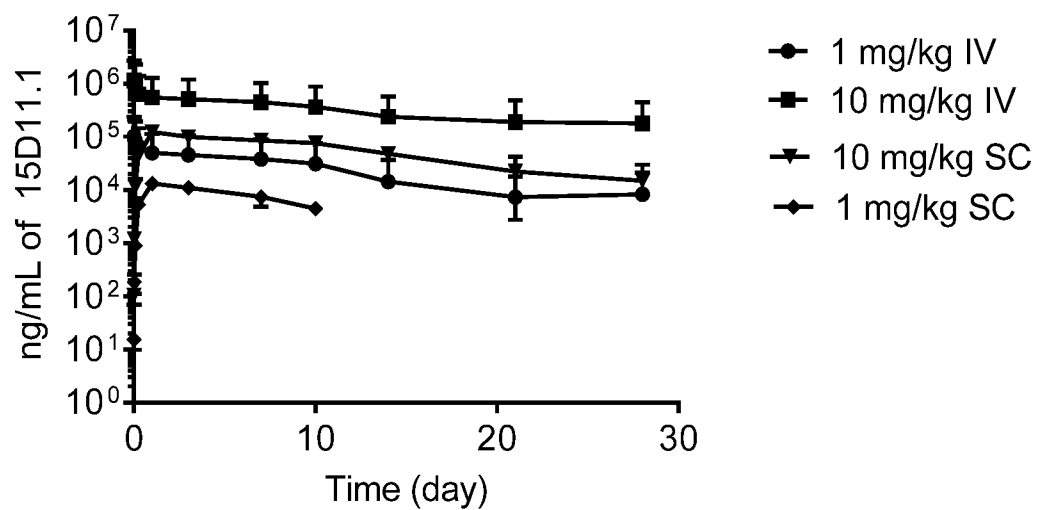


FIG. 21B

