

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATAT
GGCTAGCATGGAAAAGTTCGCGCCTGAATTCCATGGAGAAGATGCAAACAACAGGGCTACTA
AATTCCTAGAATCAATAAAGGGCAAATTCACATCACCCAAAGATCCCAAGAAAAAAGATAGTAT
CATATCTGTCAACTCAATAGATATAGAAGTAACCAAAGAAAGCCCTATAACATCAAATTCAACTA
TTATCAACCCAAACAAATGAGACAGATGATACTGCAGGGAACAAGCCCAATTATCAAAGAAAAC
CTCTAGTAAGTTTCAAAGAAGACCCTACACCAAGTGATAATCCCTTTTCTAAACTATACAAAGA
AACCATAGAAACATTTGATAACAATGAAGAAGAATCCAGCTATTCATACGAAGAAATAAATGAT
CAGACAAACGATAATATAACAGCAAGATTAGATAGGATTGATGAAAAATTAAGTGAAATACTAG
GAATGCTTCACACATTAGTAGTGGCAAGTGCAAGGACCTACATCTGCTCGGGATGGTATAAGAG
ATGCCATGGTTGGTTTAAGAGAAGAAATGATAGAAAAAATCAGAACTGAAGCATTAAATGACCA
ATGACAGATTAGAAGCTATGGCAAGACTCAGGAATGAGGAAAGTGAAAAGATGGCAAAGA
CACATCAGATGAAGTGTCTCTCAATCCAACATCAGAGAAATTGAACAACCTATTGGAAGGGAA
TGATAGTGACAATGATCTATCACTTGAAGATTTTAAGCTTGCGGGCGCACTCGAG

(a)

MGSSHHHHHSSGLVPRGSHMASMEKFAPEFHGEDANNRATKFLESIKGKFTSPKDPKKDSII
SVNSIDIEVTKESPITSNSTIINPTNETDDTAGNKP NYQRKPLVSFKEDPTPSDNPF SKLYKETIETFD
NNEEESSYSYEEINDQTN DNITARLDRIDEKLSEILGMLHTLVVASAGPTSARDGIRDAMVGLREE
MIEKIRTEALMTNDRLEAMARLRNEESEKMAKDTSDVSLNPTSEKLN NLLEGNDSDNDLSLED
FKLAGALE

(b)

ATGGAAAAGTTCGCGCCTGAATTCCATGGAGAAGATGCAAACAACAGGGCTACTAAATTCCTA
GAATCAATAAAGGGCAAATTCACATCACCCAAAGATCCCAAGAAAAAAGATAGTATCATATCTG
TCAACTCAATAGATATAGAAGTAACCAAAGAAAGCCCTATAACATCAAATTCAACTATTATCAAC
CCAACAAATGAGACAGATGATACTGCAGGGAACAAGCCCAATTATCAAAGAAAACCTCTAGTA
AGTTTCAAAGAAGACCCTACACCAAGTGATAATCCCTTTTCTAAACTATACAAAGAAACCATAG
AAACATTTGATAACAATGAAGAAGAATCCAGCTATTCATACGAAGAAATAAATGATCAGACAAA
CGATAATATAACAGCAAGATTAGATAGGATTGATGAAAAATTAAGTGAAATACTAGGAATGCTT
CACACATTAGTAGTGGCAAGTGCAAGGACCTACATCTGCTCGGGATGGTATAAGAGATGCCATG
GTTGGTTTAAGAGAAGAAATGATAGAAAAAATCAGAACTGAAGCATTAAATGACCAATGACAGA
TTAGAAGCTATGGCAAGACTCAGGAATGAGGAAAGTGAAAAGATGGCAAAGACACATCAG
ATGAAGTGTCTCTCAATCCAACATCAGAGAAATTGAACAACCTATTGGAAGGGAATGATAGTG
ACAATGATCTATCACTTGAAGATTTT

(c)

FIG 1

MEKFAPEFHGEDANNRATKFLESIKGKFTSPKDPKKKDSIISVNSIDIEVTKESPITSNSTIINPTNET
DDTAGNKPNYQRKPLVSFKEDPTPSDNPFSKLYKETIETFDNNEEESSYSYEEINDQTNDNITARLD
RIDEKLSEILGMLHTLVVASAGPTSARDGIRDAMVGLREEMIEKIRTEALMTNDRLEAMARLRNE
ESEKMAKDTSDVSLNPTSEKLNNLLEGNDSDNDLSLEDF

(d)

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATAT
 GGCTAGCATGGAAAAGTTCGCGCCTGAATTCCATGGAGAAGATGCAAACAACAGGGCTACTA
 AATTCCTAGAATCAATAAAGGGCAAATTCACATCACCCAAAGATCCCAAGAAAAAAGATAGTAT
 CATATCTGTCAACTCAATAGATATAGAAGTAACCAAAGAAAGCCCTATAACATCAAATTCAACTA
 TTATCAACCAACAATGAGACAGATGATACTGCAGGGAACAAGCCCAATTATCAAAGAAAAAC
 CTCTAGTAAGTTTCAAAGAAGACCCTACACCAAGTGATAATCCCTTTTCTAAACTATACAAAGA
 AACCATAGAAACATTTGATAACAATGAAGAAGAATCCAGCTATTCATACGAAGAAATAAATGAT
 CAGACAAACGATAATATAACAGCAAGATTAGATAGGATTGATGAAAAATTAAGTGAAATACTAG
 GAATGCTTCACACATTAGTAGTGGCAAGTGCAGGACCTACATCTGCTCGGGATGGTATAAGAG
 ATGCCATGGTTGGTTTAAGAGAAGAAATGATAGAAAAAATCAGAACTGAAGCATTAAATGACCA
 ATGACAGATTAGAAGCTATGGCAAGACTCAGGAATGAGGAAAGTGAAAAGATGGCAAAAGA
 CACATCAGATGAAGTGTCTCTCAATCCAACATCAGAGAAATTGAACAACCTATTGGAAGGGAA
 TGATAGTGACAATGATCTATCACTTGAAGATTTAAGCTTGCGGGCGCACTCGAGCACCACCA
CCACCACCACTGA

(e)

MGSSHHHHHHSSGLVPRGSHMASMEKFAPEFHGEDANNRATKFLESIKGKFTSPKDPKKKDSII
SVNSIDIEVTKESPITSNSTIINPTNETDDTAGNKPNYQRKPLVSFKEDPTPSDNPFSKLYKETIETFD
NNEEESSYSYEEINDQTNDNITARLDRIDEKLSEILGMLHTLVVASAGPTSARDGIRDAMVGLREE
MIEKIRTEALMTNDRLEAMARLRNEESEKMAKDTSDVSLNPTSEKLNNLLEGNDSDNDLSLED
EKLAGALEHHHHHHH

(f)

FIG 1 (cont'd)

ATGGCACAAGTCATTAATACCAACAGCCTCTCGCTGATCACTCAAAATAATATCAACAAGAACC
AGTCTGCGCTGTGCGAGTTCTATCGAGCGTCTGTCTTCTGGCTTGCGTATTAAACAGCGCGAAGG
ATGACGCAGCGGGTCAGGCGATTGCTAACCGTTTCACCTCTAACATTAAAGGCCTGACTCAGG
CGGCCCGTAACGCCAACGACGGTATCTCCGTTGCGCAGACCACCGAAGGCGCGCTGTCCGAA
ATCAACAACAACCTTACAGCGTGTGCGTGAACTGACGGTACAGGCCACTACCGGTACTAACTCT
GAGTCTGATCTGTCTTCTATCCAGGACGAAATTAAATCCCGTCTGGATGAAATTGACCGCGTAT
CTGGTCAGACCCAGTTCAACGGCGTGAACGTGCTGGCAAAAAATGGCTCCATGAAAATCCAG
GTTGGCGCAAATGATAACCAGACTATCACTATCGATCTGAAGCAGATTGATGCTAAAACCTTTG
GCCTTGATgctagcgctacgacgacGGATCCGCTGAAAGCGCTGGACGATGCTATCGCATCTGTAGA
CAAATTCCGTTCTTCCCTCGGTGCGGTGCAAAACCGTCTGGATTCCGCGGTTACCAACCTGAA
CAACACCACTACCAACCTGTCTGAAGCGCAGTCCCGTATTCAGGACGCCGACTATGCGACCGA
AGTGTCCAATATGTCGAAAGCGCAGATCATCCAGCAGGCCGGTAACTCCGTGTTGGCAAAAG
CTAACCAGGTACCGCAGCAGGTTCTGTCTCTGCTGCAGGGT

(g)

MAQVINTNSLSLITQNNINKNQSALSSSIERLSSGLRINSKDDAAGQAIANRFTSNIKGLTQAAR
NANDGISVAQTTEGALSEINNNLQRVRELTQATTGTNSEDLSSIQDEIKSRLDEIDRVSGQTQF
NGVNVLAKNGSMKIQVGANDNQITIDLKQIDAKTLGLDASATTTDPLKALDDAIASVDKFRSSL
GAVQNRLDASVTNLNNTTTNLSEASRIQDADYATEVSNMSKAQIIQQAGNSVLAKANQVPQ
QVLSLLQG

(h)

FIG 1 (cont'd)

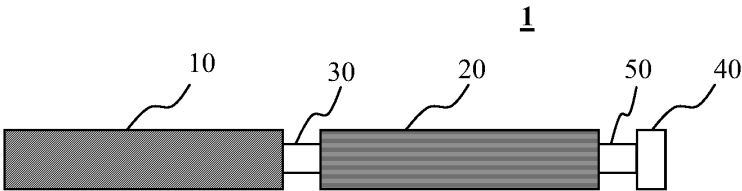
ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCA7AT
 GGCTAGCATGGAAAAGTTCGCGCCTGAATTCCATGGAGAAGATGCAAACAACAGGGCTACTA
 AATTCCTAGAATCAATAAAGGGCAAATTCACATCACCCAAAGATCCCAAGAAAAAAGATAGTAT
 CATATCTGTCAACTCAATAGATATAGAAGTAACCAAGAAAGCCCTATAACATCAAATTCAACTA
 TTATCAACCCAACAAATGAGACAGATGATACTGCAGGGAACAAGCCCAATTATCAAAGAAAAC
 CTCTAGTAAGTTTCAAAGAAGACCCTACACCAAGTGATAATCCCTTTTCTAAACTATACAAAGA
 AACCATAGAAACATTTGATAACAATGAAGAAGAATCCAGCTATTCATACGAAGAAATAAATGAT
 CAGACAAACGATAATATAACAGCAAGATTAGATAGGATTGATGAAAAATTAAGTGAAATACTAG
 GAATGCTTCACACATTAGTAGTGGCAAGTGCAGGACCTACATCTGCTCGGGATGGTATAAGAG
 ATGCCATGGTTGGTTTAAGAGAAGAAATGATAGAAAAAATCAGAACTGAAGCATTAAATGACCA
 ATGACAGATTAGAAGCTATGGCAAGACTCAGGAATGAGGAAAGTGAAAAGATGGCAAAAGA
 CACATCAGATGAAGTGTCTCTCAATCCAACATCAGAGAAATTGAACAACCTATTGGAAGGGAA
 TGATAGTGACAATGATCTATCACTTGAAGATTCGGGCGCGCCATGGCACAAGTCATTAATACC
 AACAGCCTCTCGCTGATCACTCAAAATAATCAACAAGAACCAGTCTGCGCTGTGAGTTCTA
 TCGAGCGTCTGTCTTCTGGCTTGCGTATTAACAGCGCGAAGGATGACGCAGCGGGTCAGGCG
 ATTGCTAACCGTTTCACTCTAACATTAAAGGCCTGACTCAGGCGGCCGTAACGCCAACGAC
 GGTATCTCCGTTGCGCAGACCACCGAAGGCGCGCTGTCCGAAATCAACAACAACTTACAGCG
 TGTGCGTGAAGTACGGTACAGGCCACTACCGGTACTAACTCTGAGTCTGATCTGTCTTCTATC
 CAGGACGAAATTAAATCCCGTCTGGATGAAATTGACCGGTATCTGGTCAGACCCAGTTCAAC
 GCGTGAACGTGCTGGCAAAAAATGGCTCCATGAAAATCCAGGTTGGCGCAAATGATAACCA
 GACTATCACTATCGATCTGAAGCAGATTGATGCTAAAACTCTTGGCCTTGATgctagcgctacgacga
 cGGATCCGCTGAAAGCGCTGGACGATGCTATCGCATCTGTAGACAAATCCGTTCTTCCCTCGG
 TGCGGTGCAAAACCGTCTGGATTCCGCGGTTACCAACCTGAACAACACCACTACCAACCTGTC
 TGAAGCGCAGTCCCGTATTCAGGACGCCGACTATGCGACCGAAGTGCCAATATGTCGAAAGC
 GCAGATCATCCAGCAGGCCGGTAACCTCCGTGTTGGCAAAAGCTAACCAGGTACCGCAGCAGG
 TTCTGTCTCTGCTGCAGGGTctcgagcaccaccaccaccacTGA

(i)

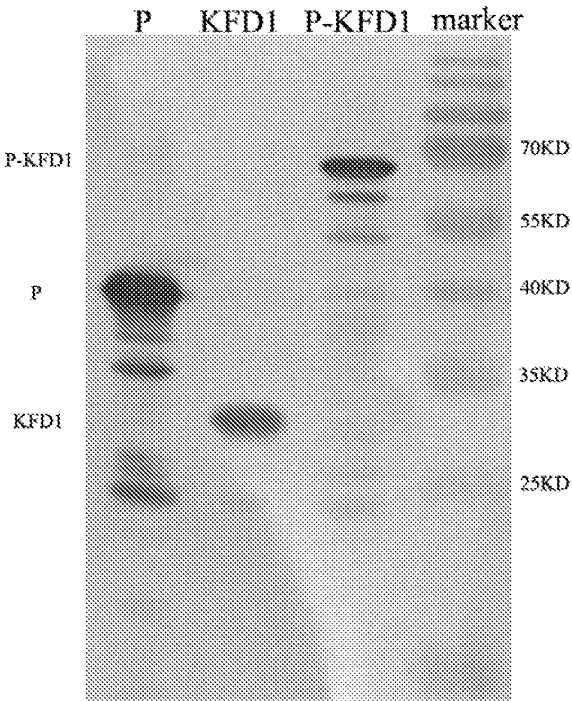
MGSSHHHHHSSGLVPRGSHMASMEKFAPEFHGEDANNRATKFLESIKGFTSPKDPKKKDSII
 SVN SIDIEVTKESPITSNSTIINPTNETDDTAGNKP NYQRKPLVSFKEDPTPSDNPF SKLYKETIETFD
 NNEEESSYSYEEINDQTN DNITARLDRIDEKLSEILGMLHTLVVASAGPTSARDGIRDAMVGLREE
 MIEKIRTEALMTNDRLEAMARLRNEESEKMAKDTSDVSLNPTSEKLNLLLEGNDSDNDLSLED
 FGRAMAQVINTNSLSLITQNNINKNQSALSSSIERLSSGLRINSAKDDAAGQAIANRFTSNIKGLT
 QAARNANDGISVAQTTEGALSEINNNLQRVRELTVQATTGTNSES DLSSIQDEIKSRLDEIDRVSG
 QTQFNGVNV LAKNGSMKIQVGANDNOTITIDLKQIDAKTLGLDASATTTDPLKALDDAIASVDK
 FRSSLGAVQNR LDSAVTNLNNTTTTNLSEAQSRIQDADYATEVSNMSKAQIIQQAGNSVLAKANO
 VPQQVLSLLQGLEHHHHHH

(j)

FIG 1 (cont'd)

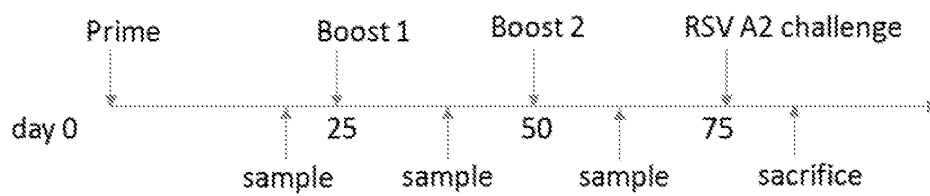


(a)



(b)

FIG 2

**FIG 3**

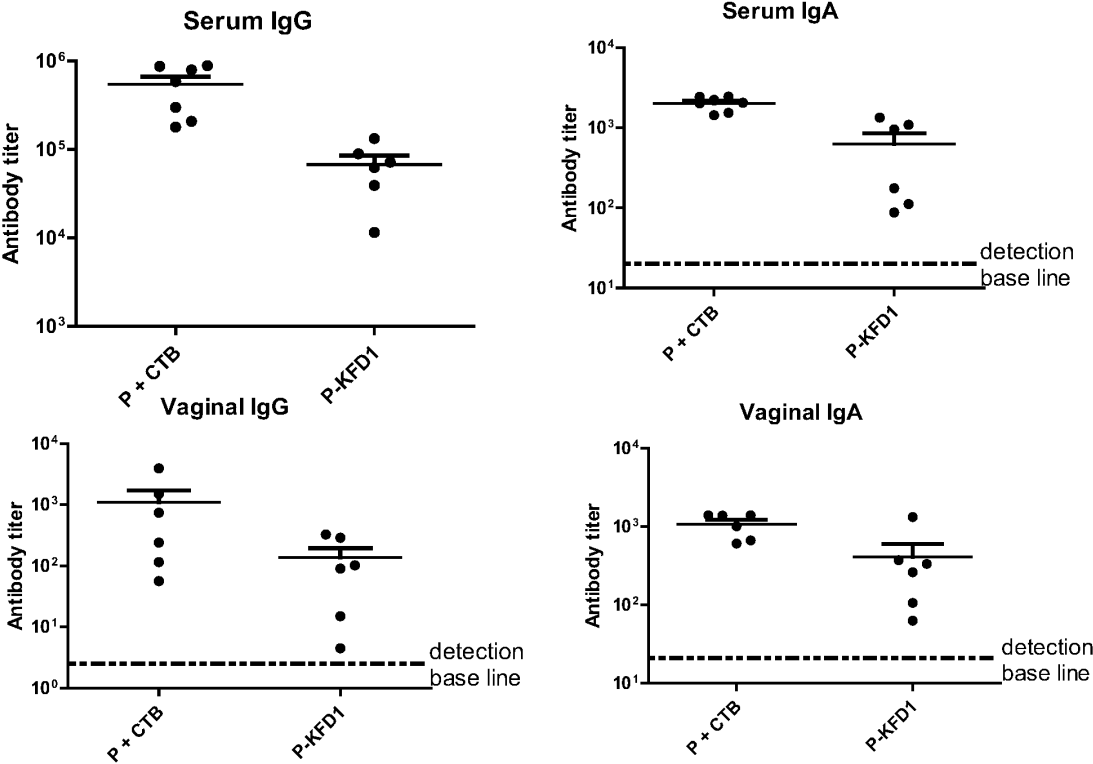
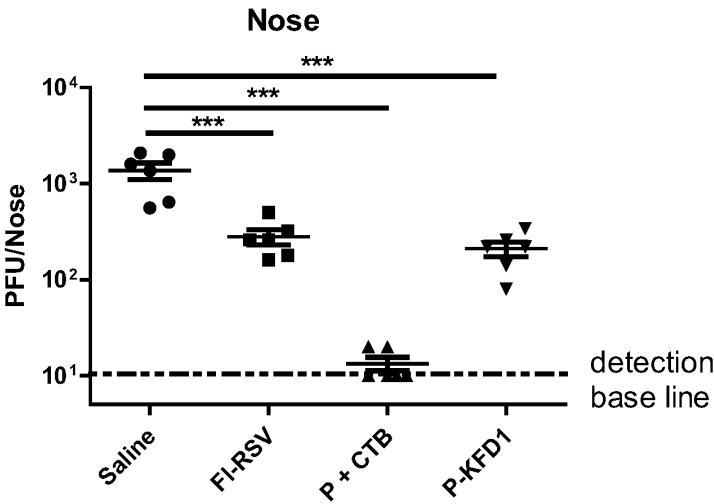
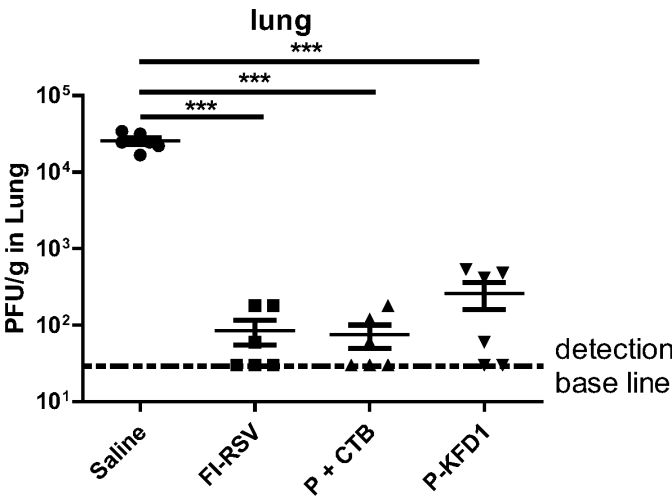


FIG 4



(a)



(b)

FIG 5

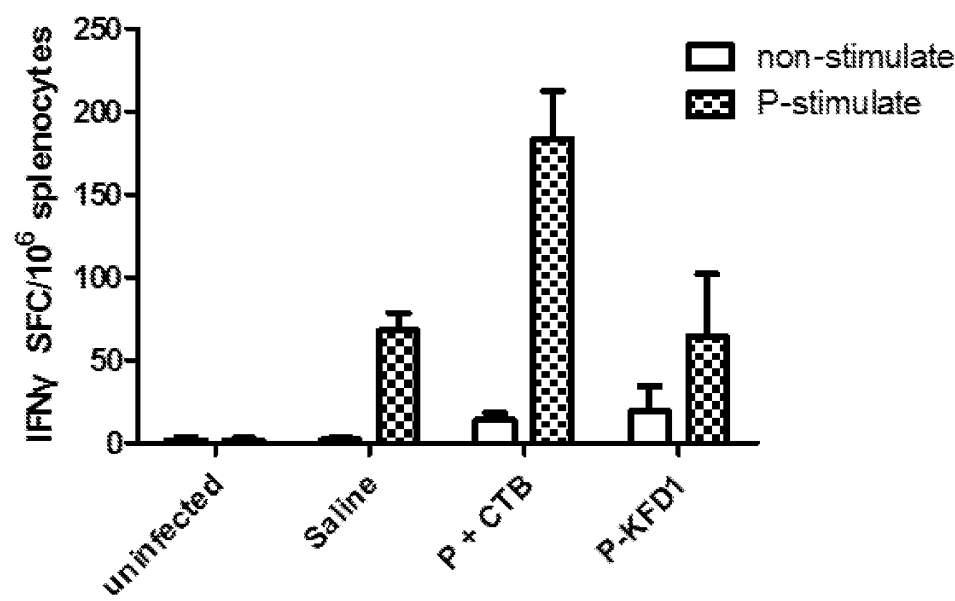
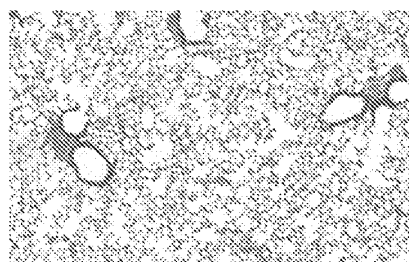
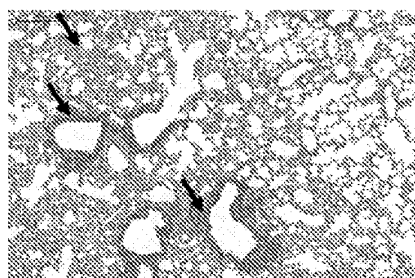


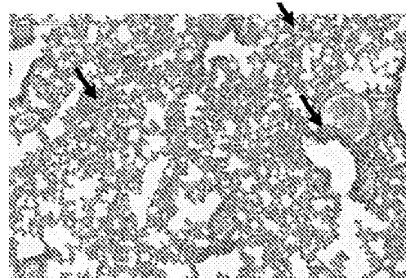
FIG 6



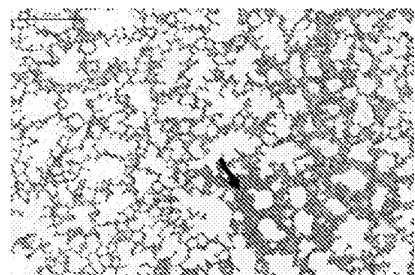
(a)



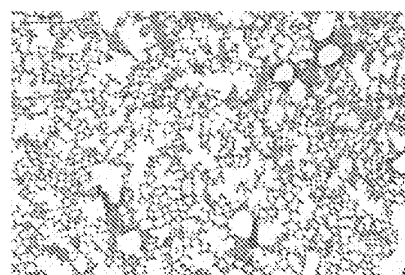
(b)



(c)



(d)



(e)

FIG 7

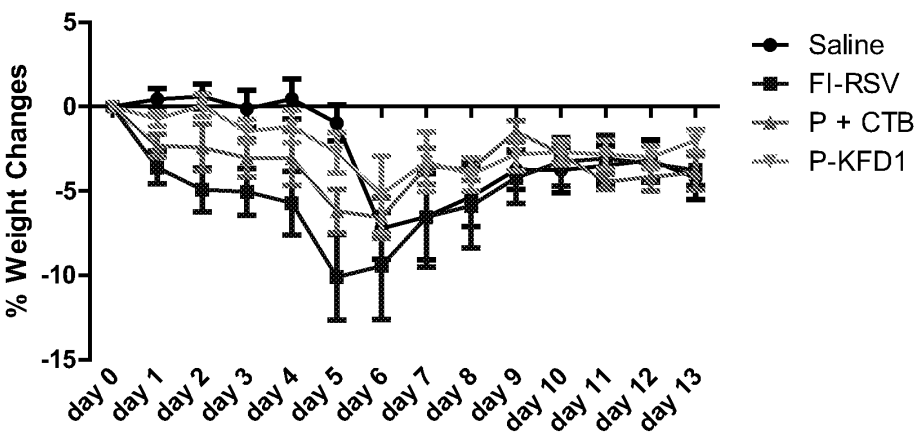
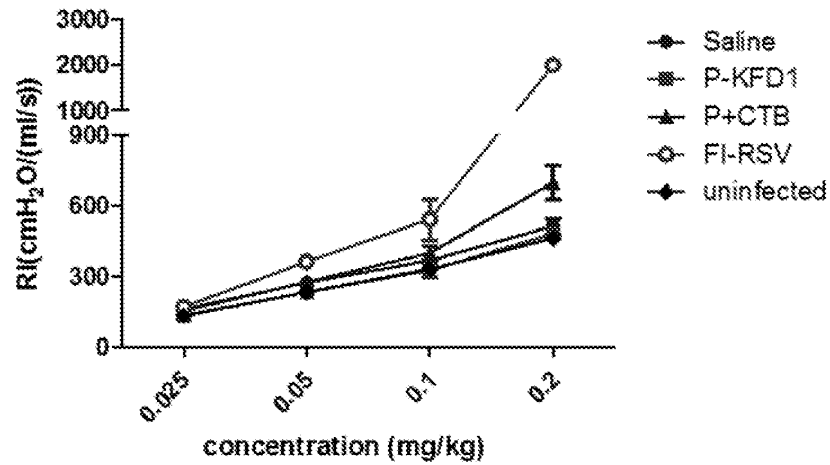
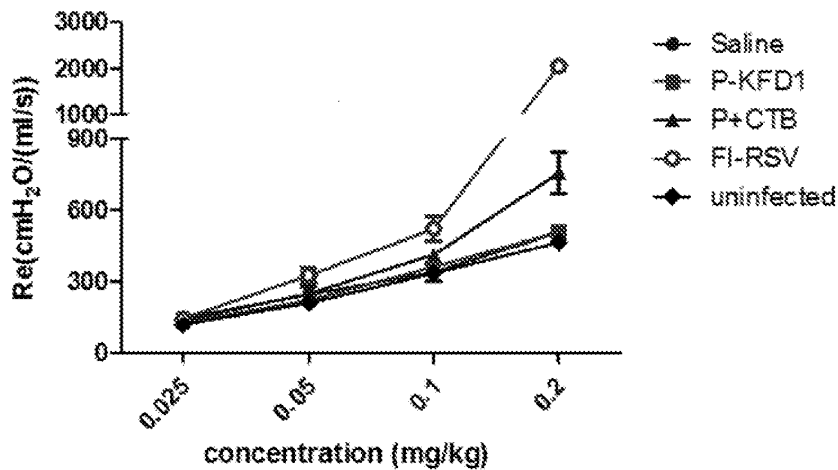


FIG 8



(a)



(b)

FIG 9

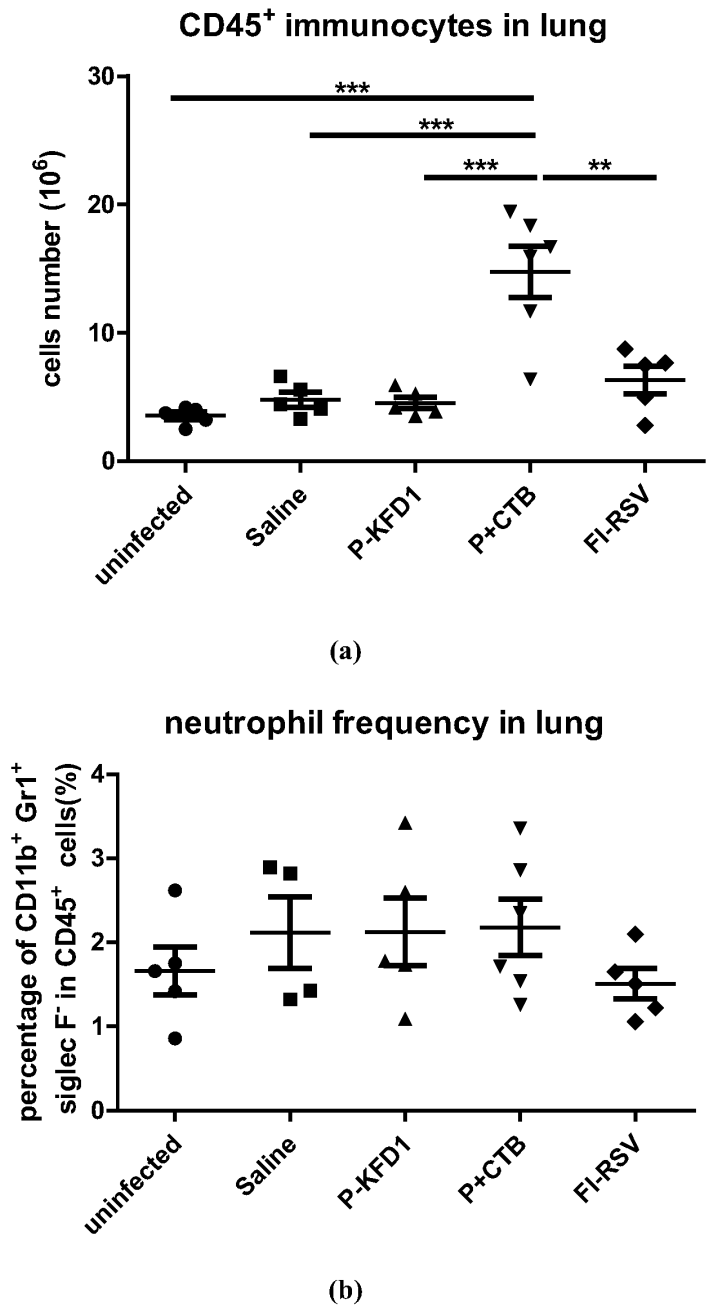
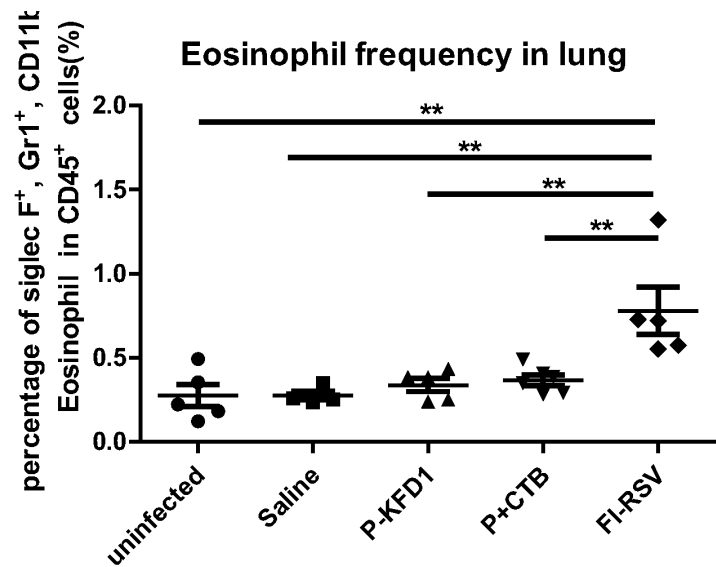
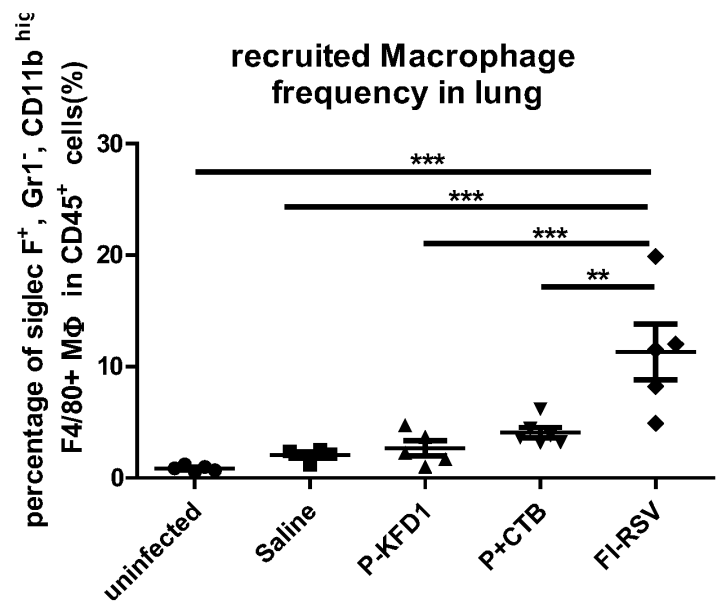


FIG 10



(c)



(d)

FIG 10 (cont'd)