

FIG. 1

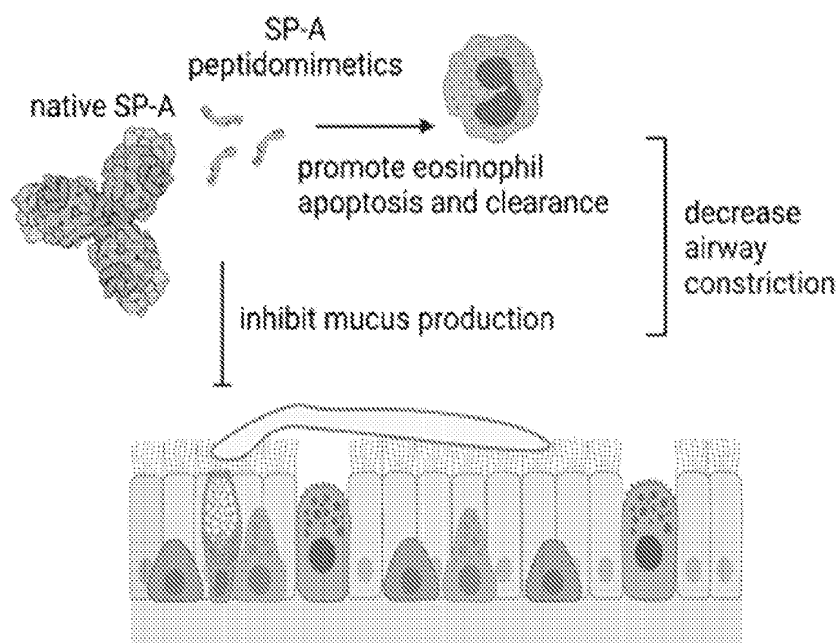
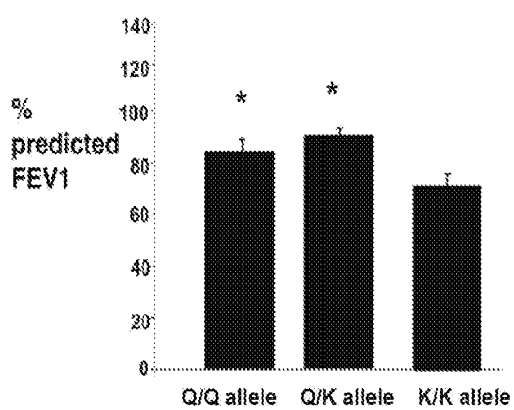
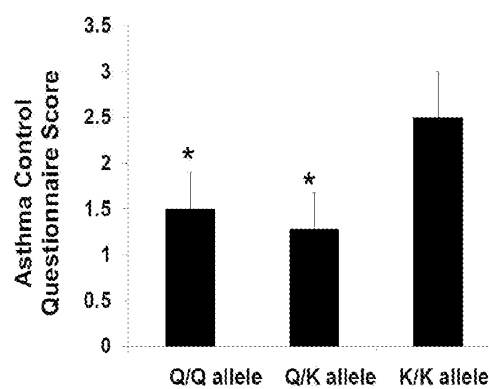


FIG. 2A



* p < when compared to K/K

FIG. 2B



* p < when compared to K/K

FIG. 3A

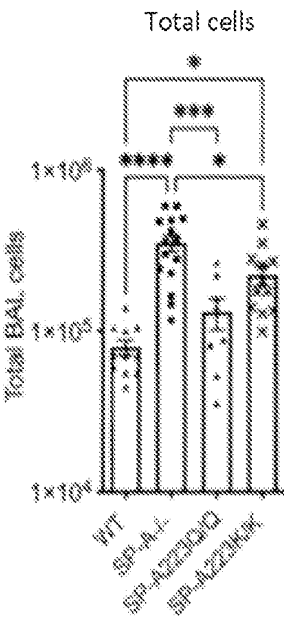


FIG. 3B

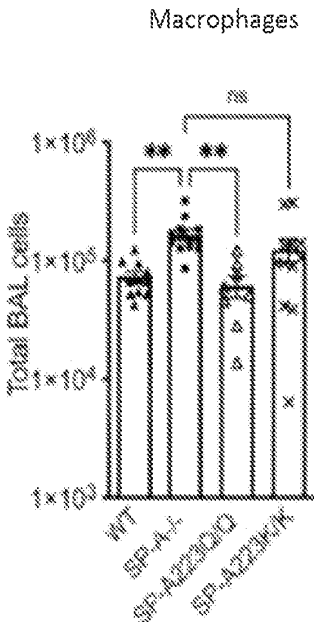


FIG. 3C

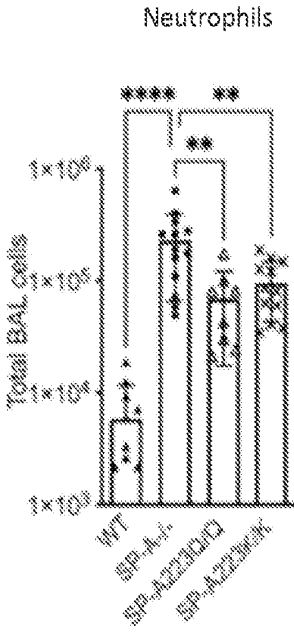


FIG. 3D

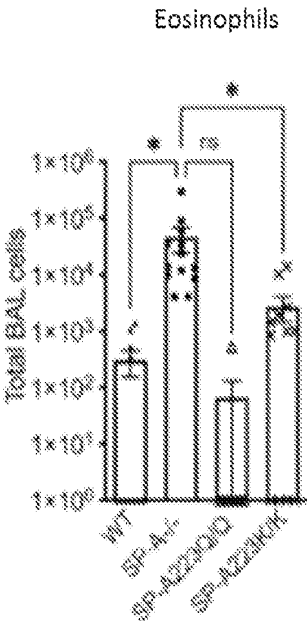


FIG. 3E

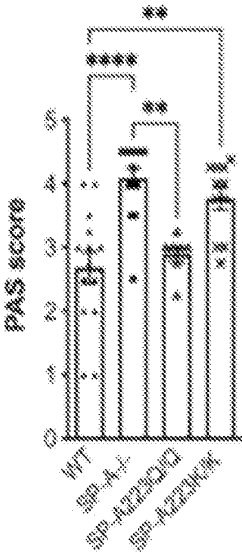


FIG. 3F

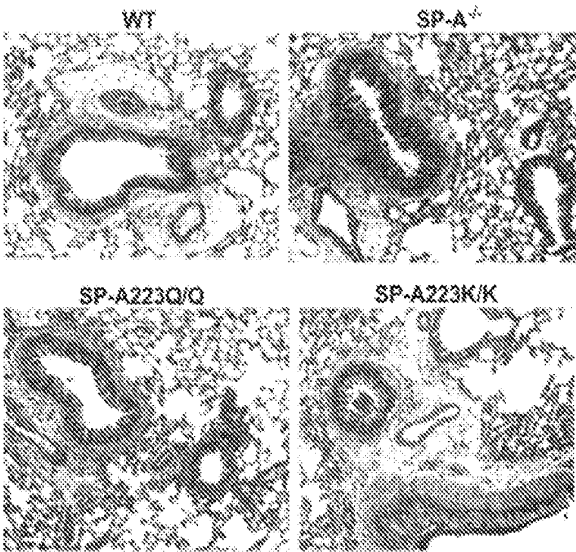


FIG. 3H

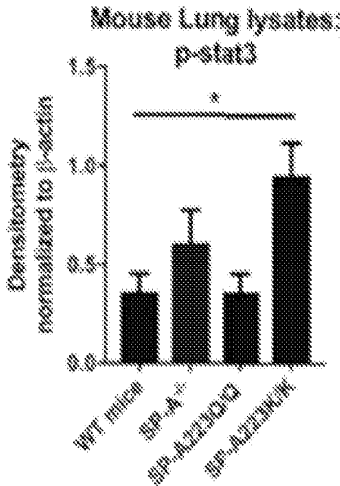


FIG. 3G

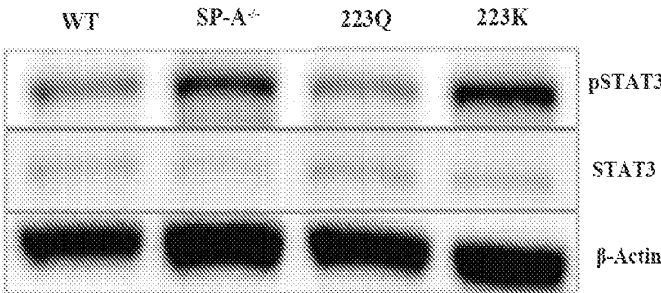


FIG. 4A

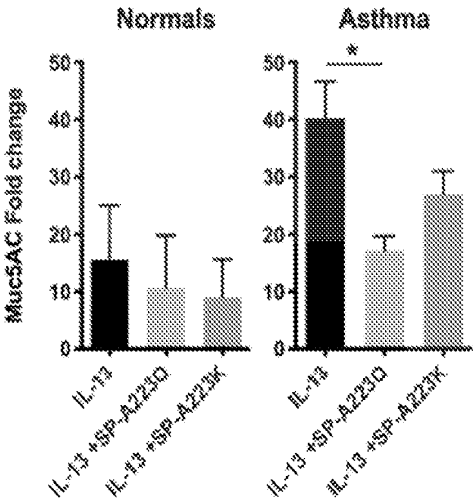


FIG. 4B

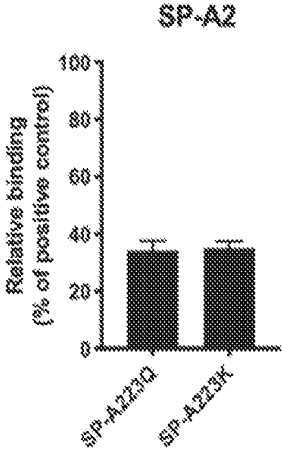


FIG. 5A

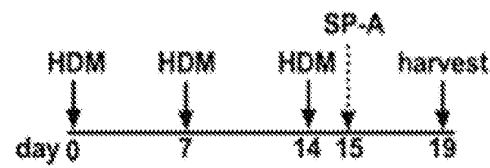


FIG. 5B

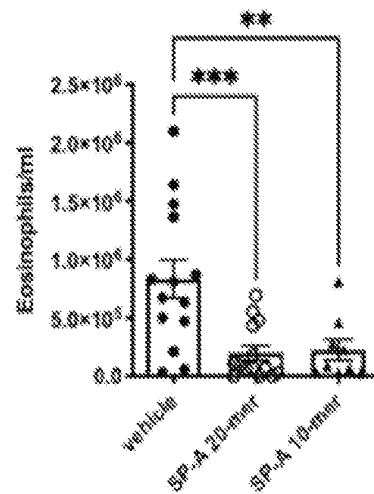


FIG. 5C

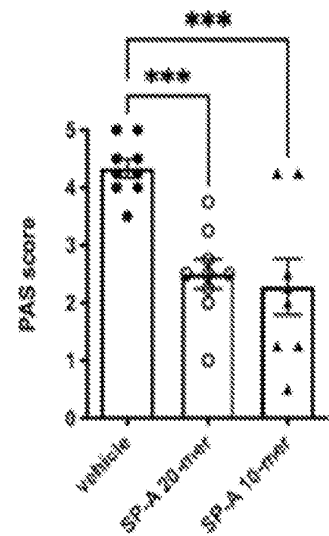


FIG. 5D

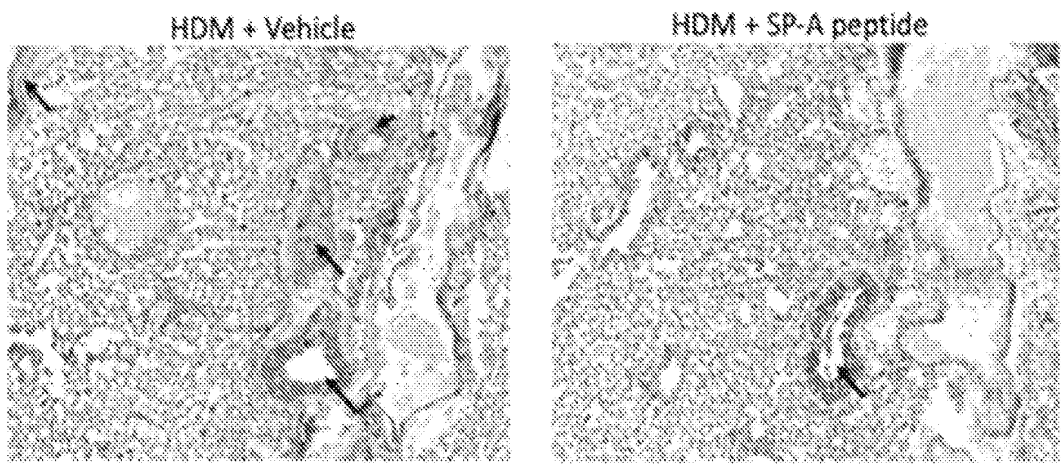


FIG. 6A

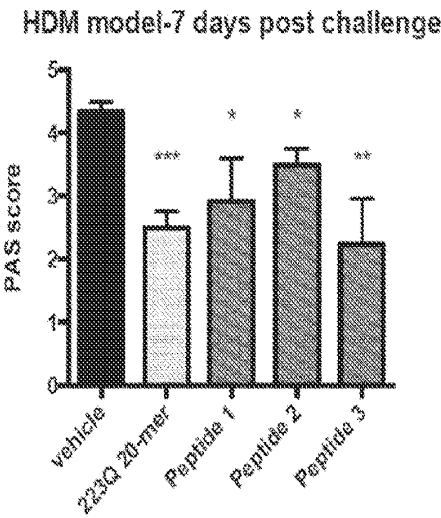


FIG. 6B

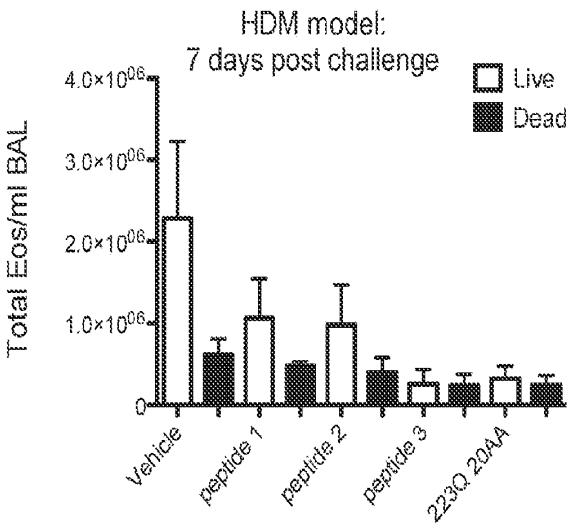


FIG. 6C

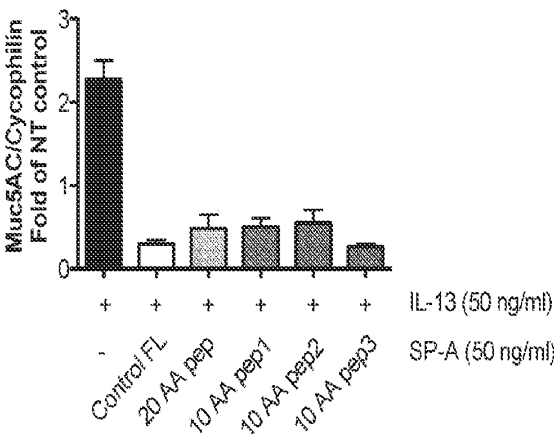


FIG. 7A

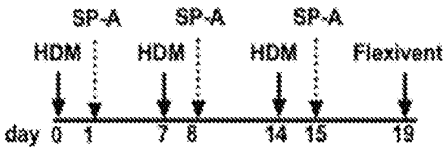


FIG. 7B

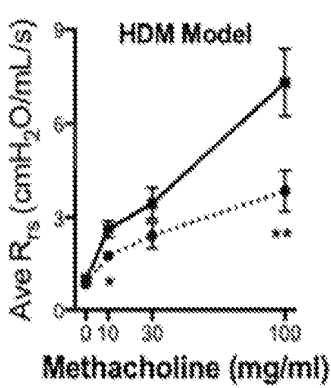


FIG. 7C

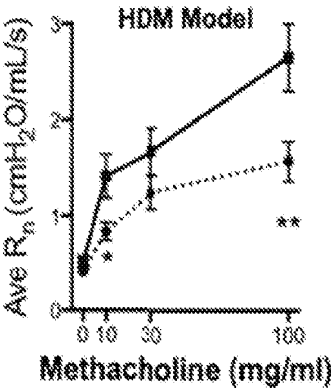


FIG. 7D

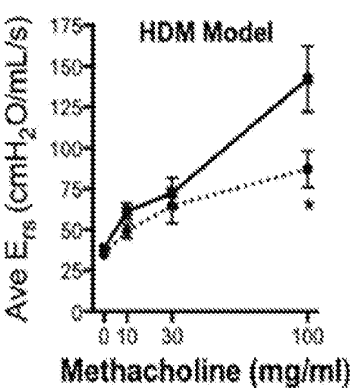


FIG. 7E

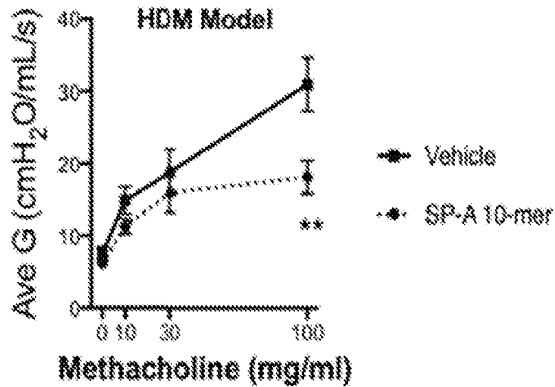


FIG. 8A

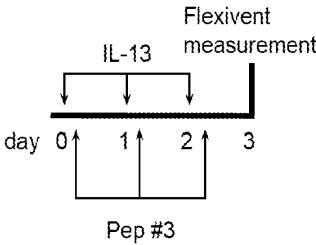


FIG. 8B

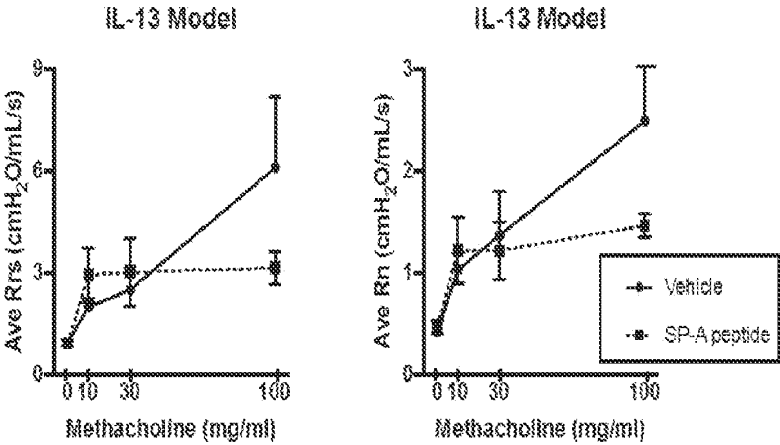


FIG. 9

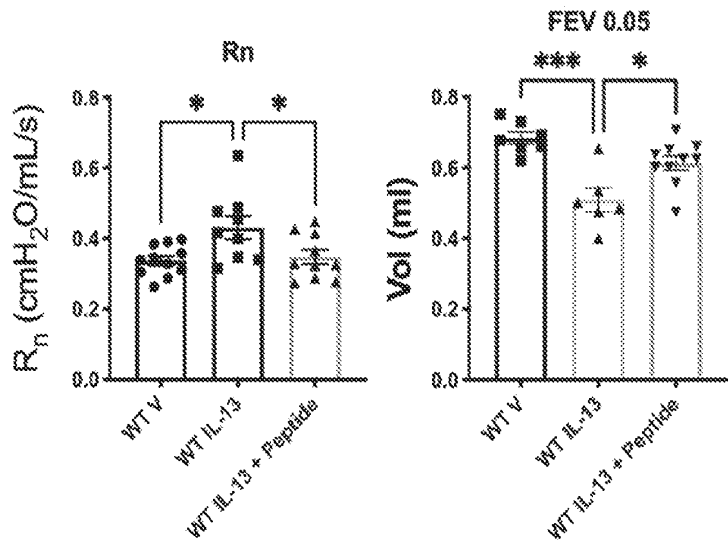


FIG. 10

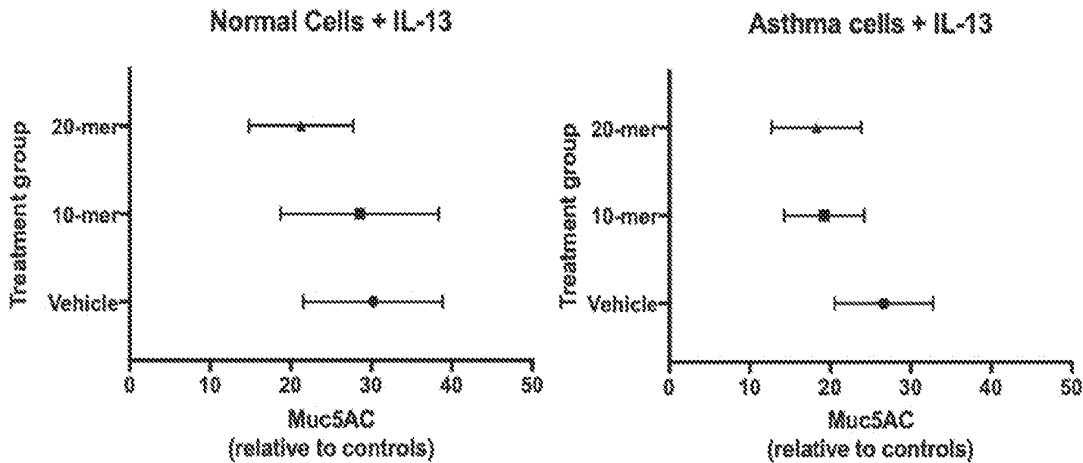


FIG. 11A



FIG. 11B

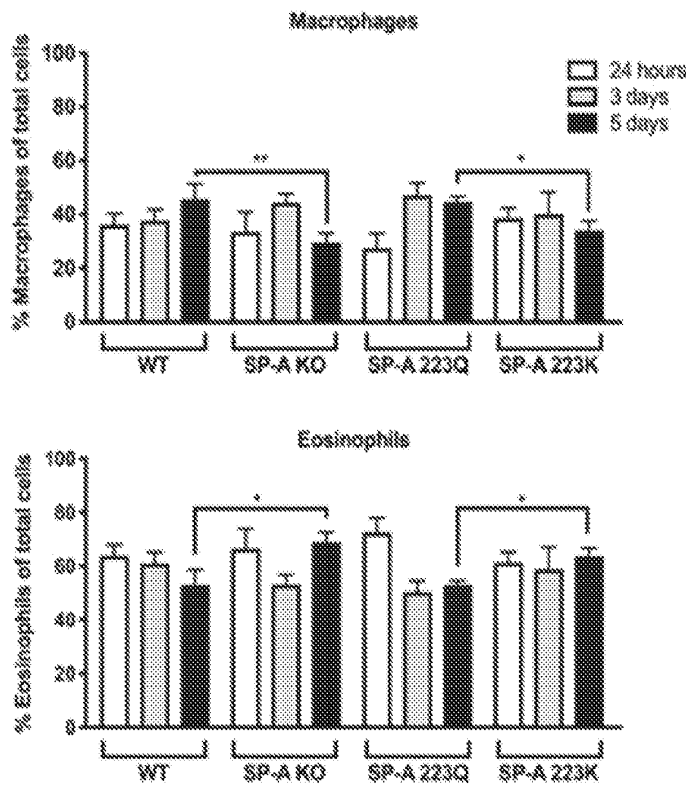


FIG. 11C

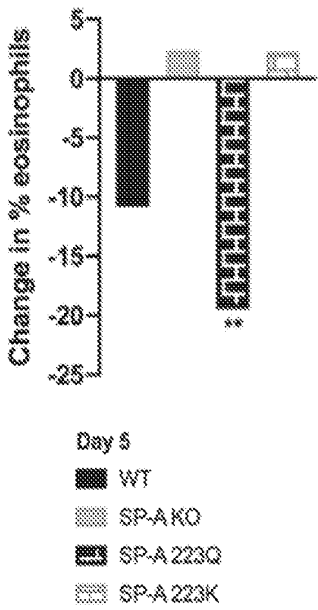


FIG. 11D

Group	Mean at 24 hours (SE)	Mean at 5 days (SE)	Difference in means (SE)	P-value
Wild-type	63.77 (4.10)	52.94 (5.56)	-10.83 (6.91)	0.076
SP-A KO	66.45 (7.40)	68.84 (3.70)	2.39 (8.27)	0.779
SP-A 223 Q/Q	72.44 (5.42)	52.98 (1.47)	-19.46 (5.61)	0.008
SP-A 223 K/K	61.39 (3.78)	63.66 (2.98)	2.27 (4.81)	0.643

FIG. 12A

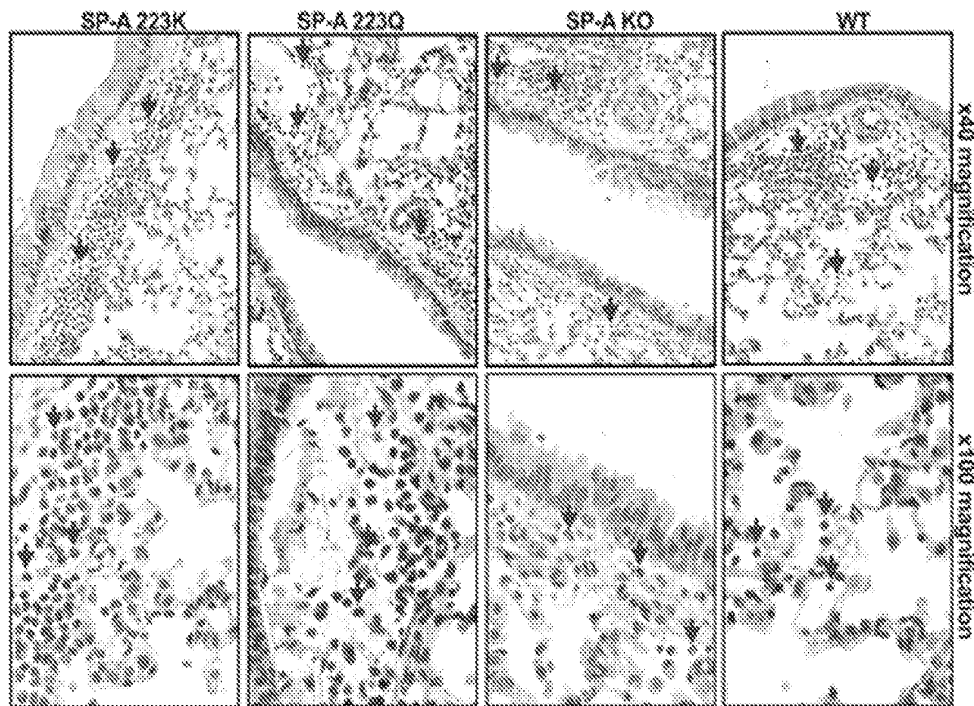


FIG. 12B

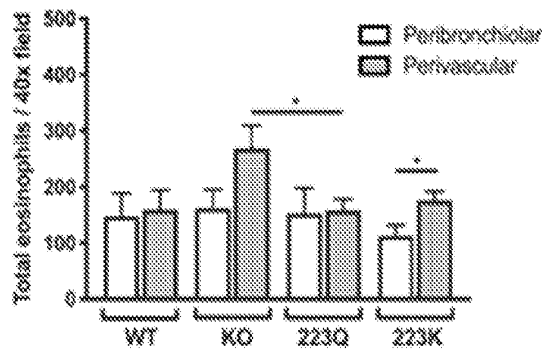


FIG. 12C

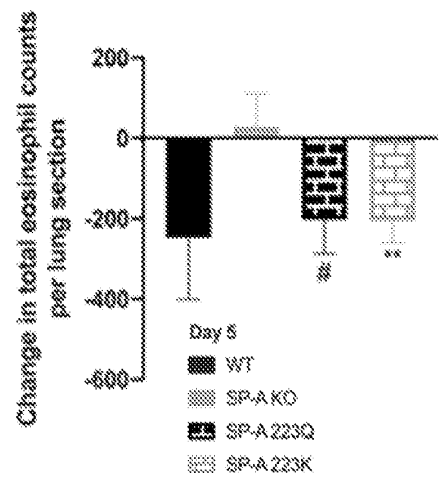


FIG. 12D

Group	Mean at 24 hours (SE)	Mean at 5 days (SE)	Difference in means (SE)	P-value
Wild-type	554 (138)	307 (69)	-247 (155)	0.152
SP-A KO	403 (56)	431 (62)	28 (83)	0.744
SP-A 223 Q/Q	513 (62)	311 (58)	-202 (85)	0.030
SP-A 223 K/K	493 (46)	289 (33)	-204 (56)	0.002

FIG. 12E

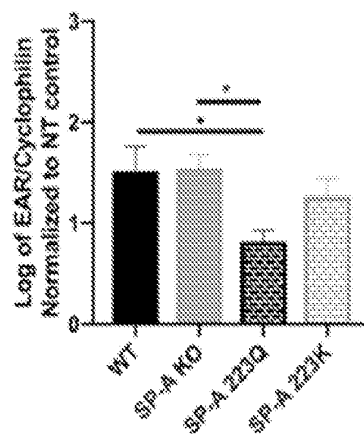


FIG. 13A

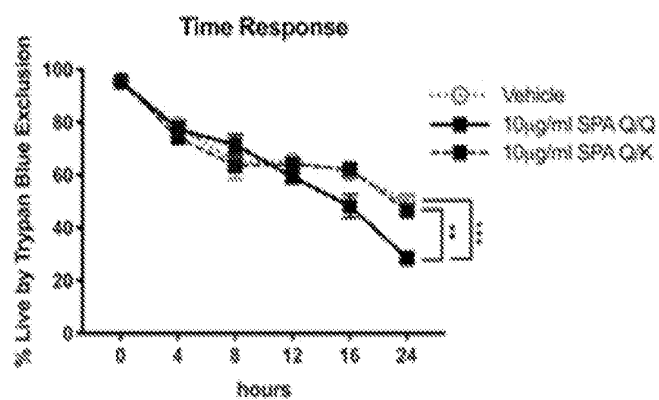


FIG. 13B

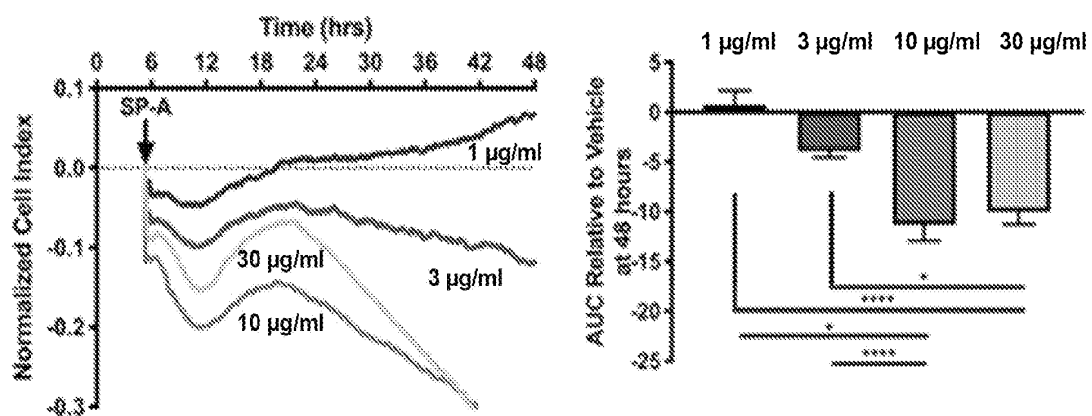


FIG. 13C

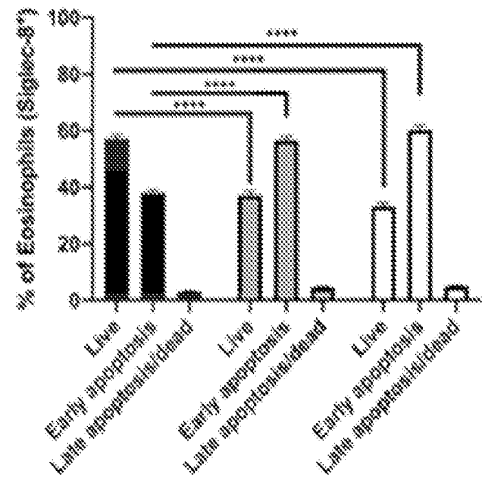
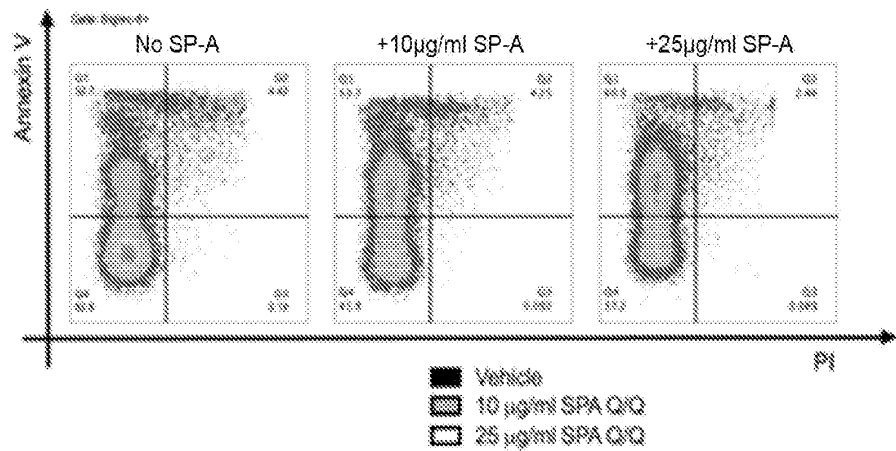


FIG. 13D

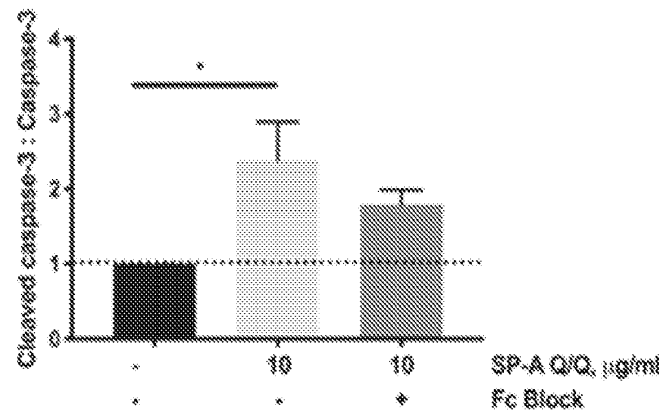


FIG. 14A

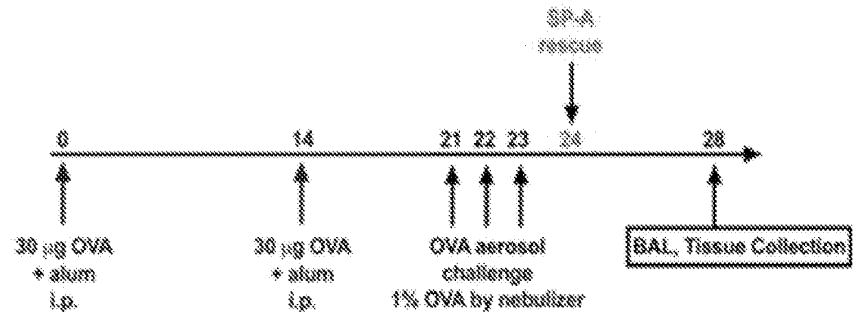


FIG. 14B

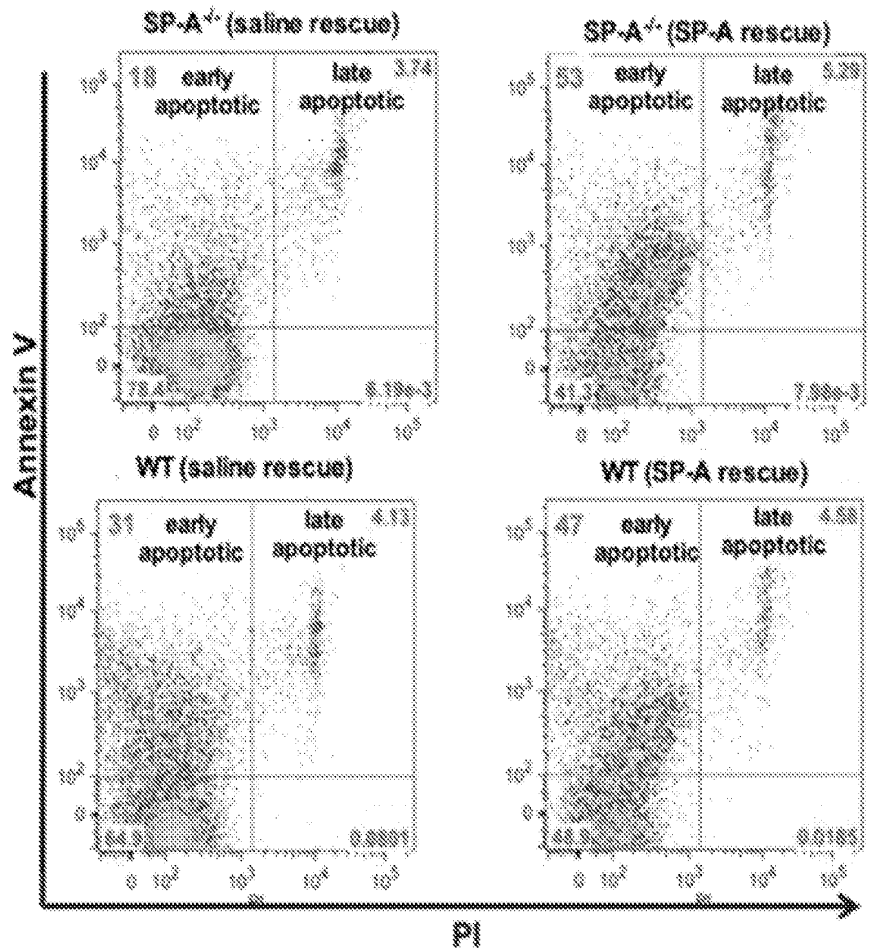


FIG. 14C

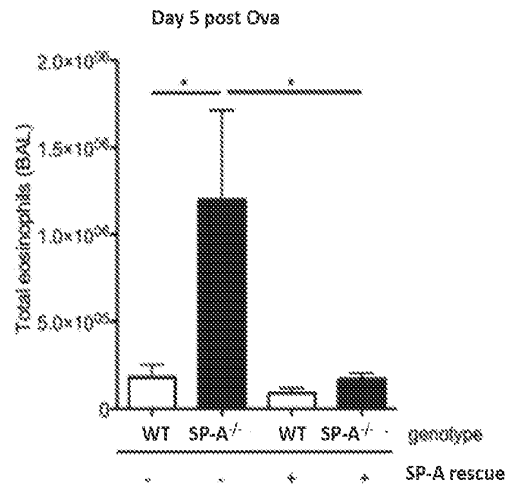


FIG. 15A

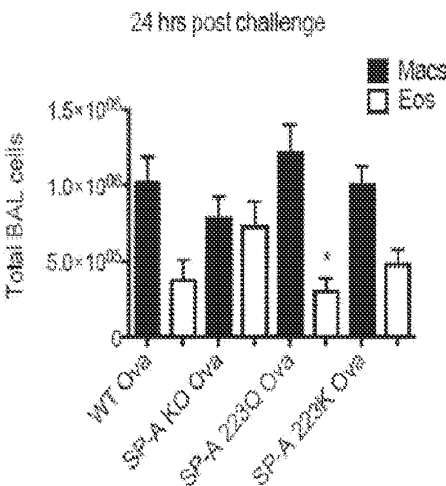


FIG. 15B

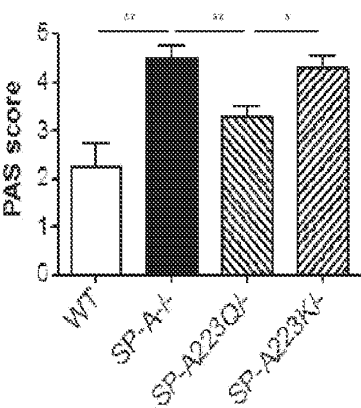


FIG. 16A

7 days post HDM challenge

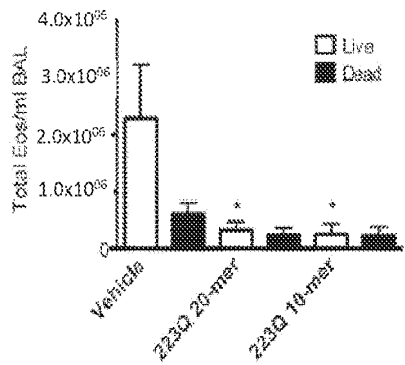


FIG. 16B

7 days post HDM challenge

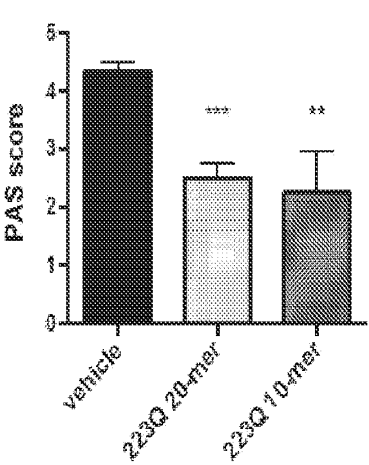


FIG. 17

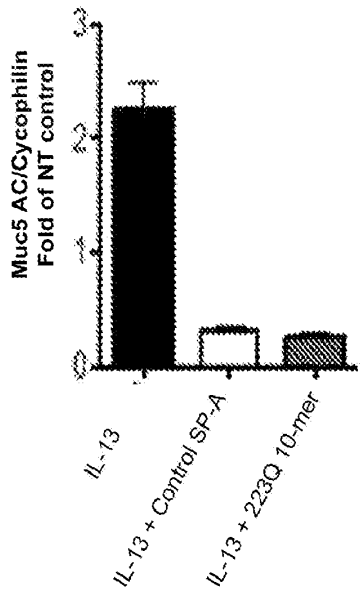


FIG. 18

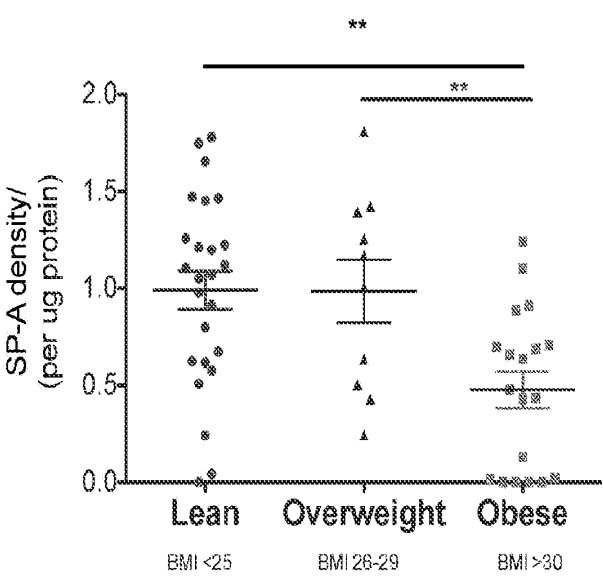


FIG. 19

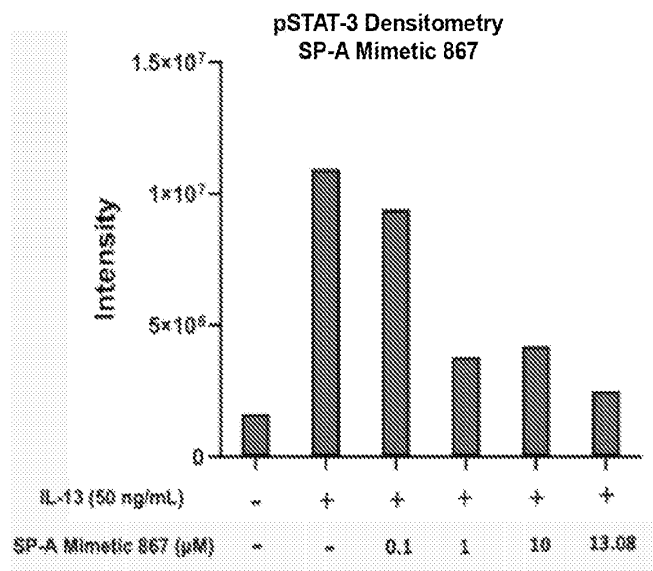
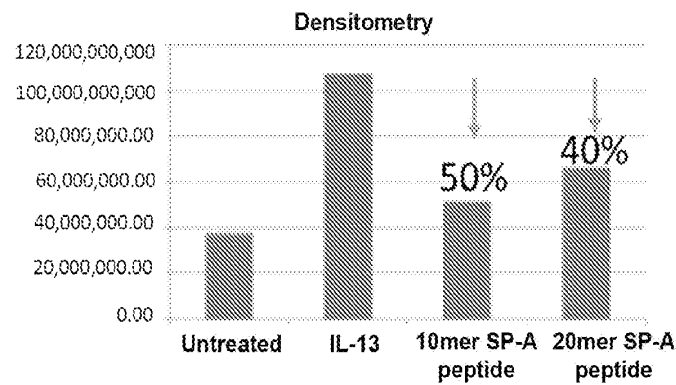


FIG. 20

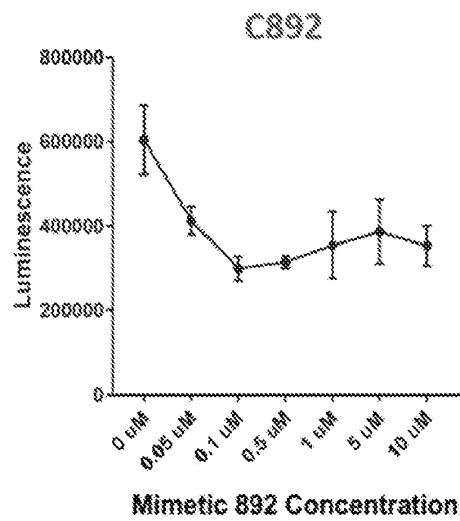


FIG. 21

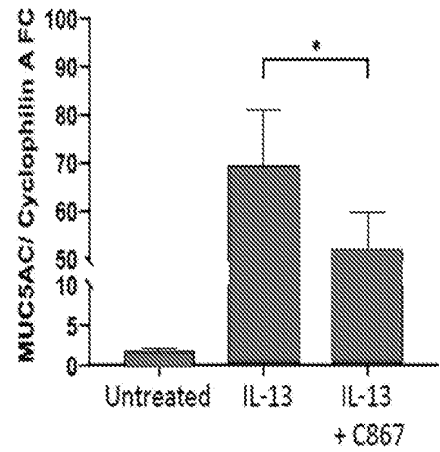


FIG. 22

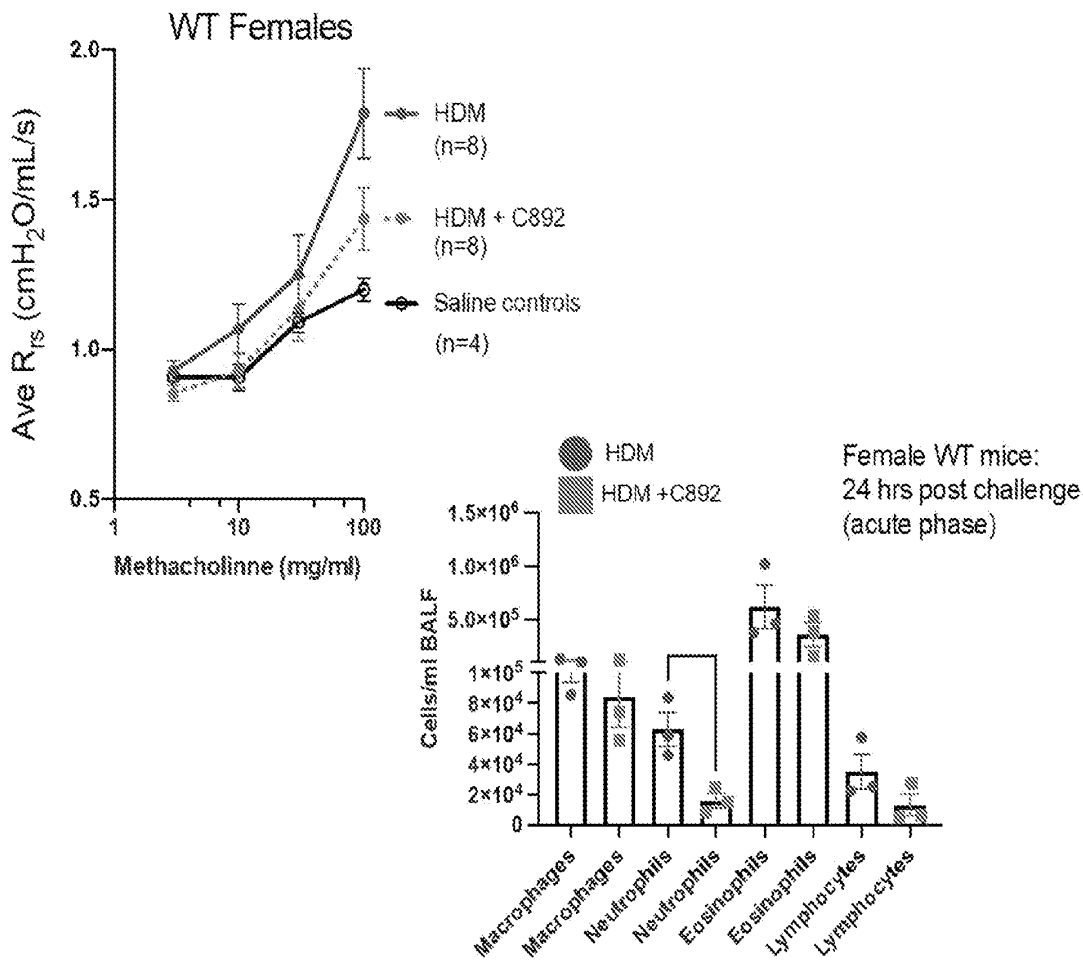


FIG. 23

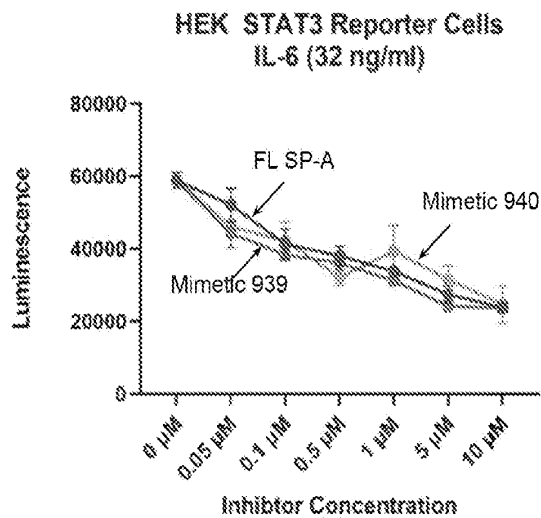
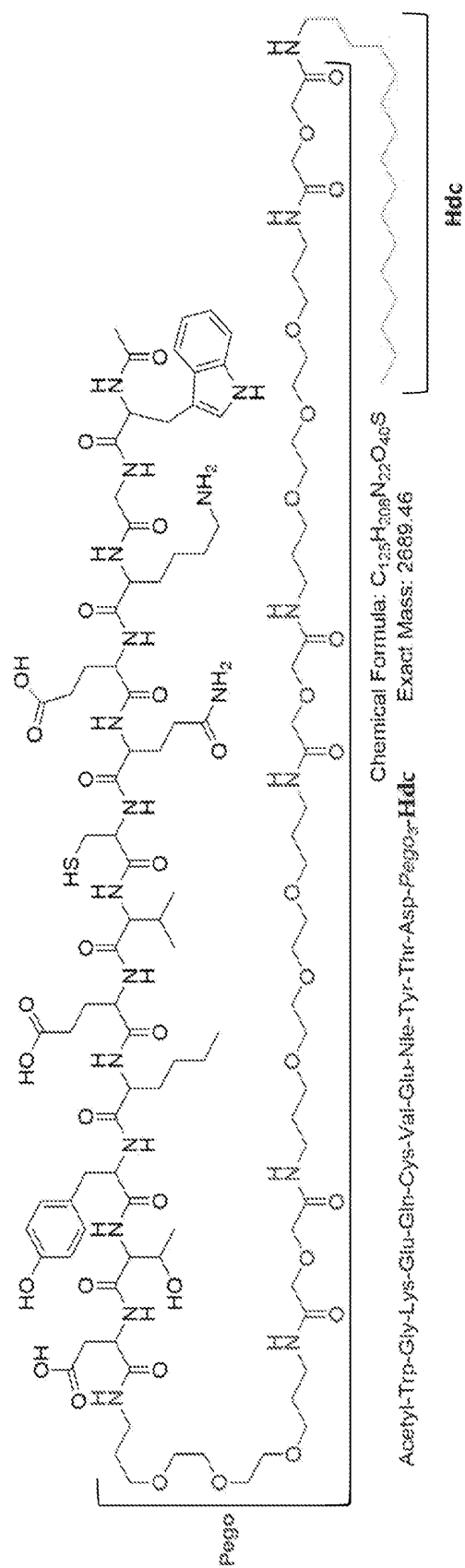


FIG. 24



(SEQ ID NO: 23)

FIG. 25

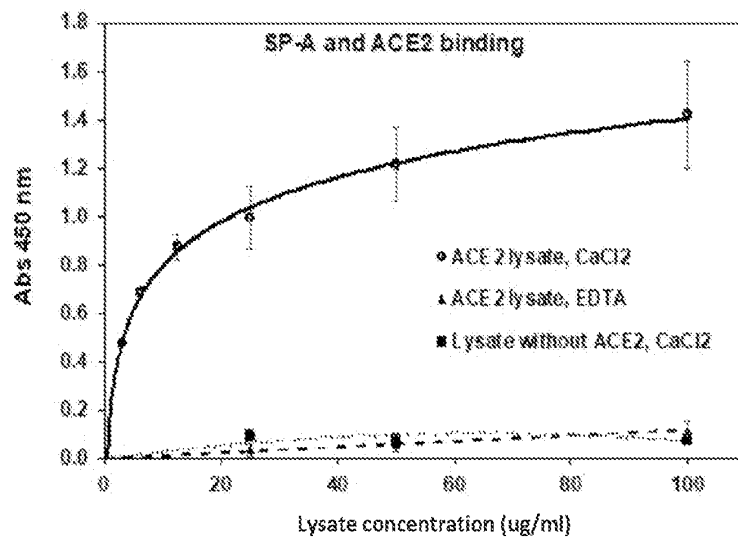
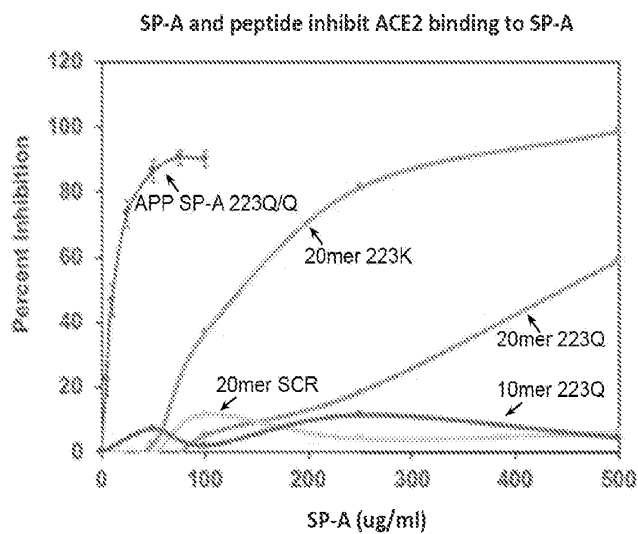


FIG. 26



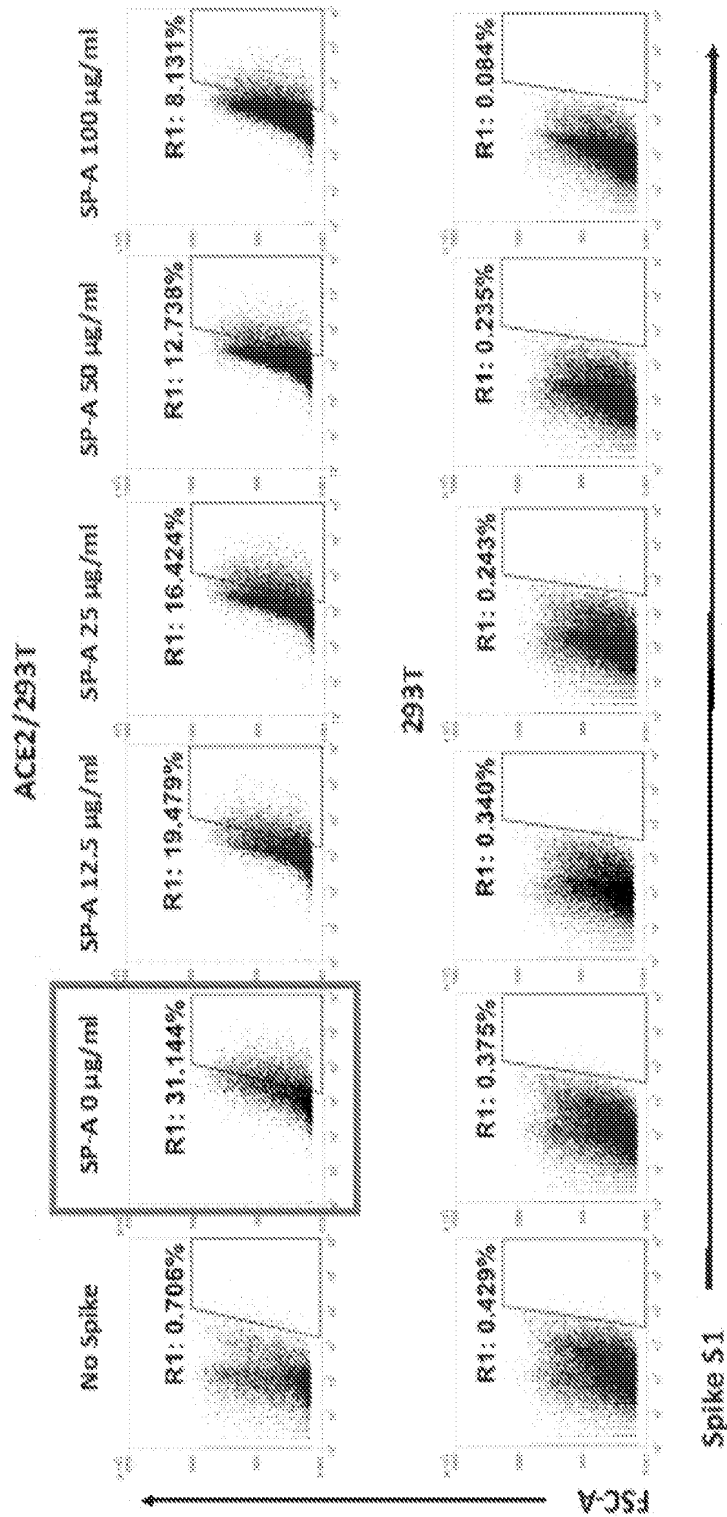


FIG. 27A

FIG. 27B

SpikeS1 binding to ACE2/293T

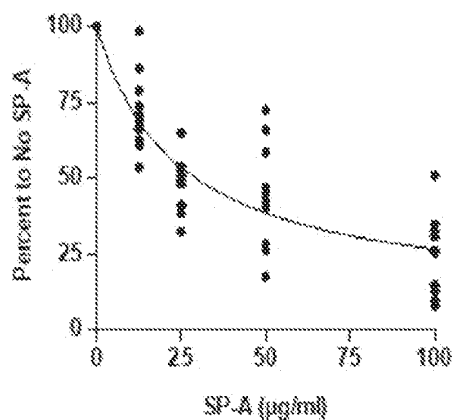


FIG. 28

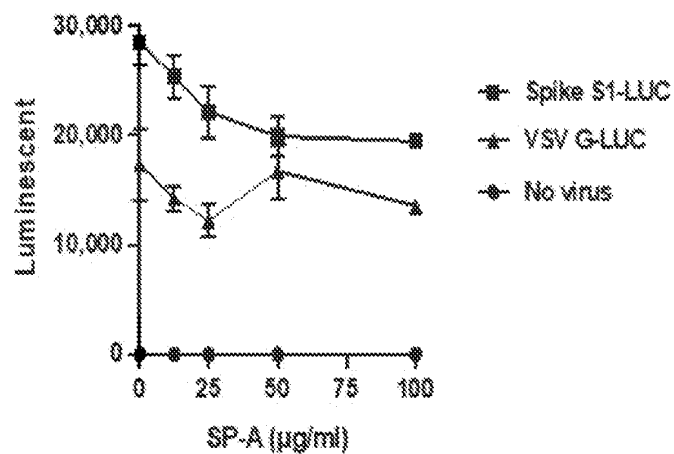


FIG. 29

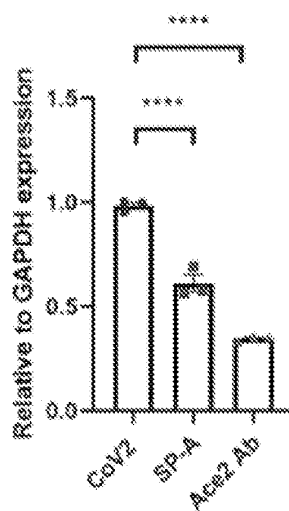


FIG. 30

