

SEQ ID NO: 1> IL25Ab1_VH

QVQLKESGPGLVAPSQSL SITCTVSGFSLTDYGINWVRQPPGKGLEWLGMIWGDGVTHY
NSVLKSRLSISKDNSMSQIFLKMNSLQTDDTARYYCARITLFYDGTLYYYAMDYWGQGT
SVTVSS

DYGIN	MIWGDGVTHYNSVLKS	TLFYDGTLYYYAMDY
SEQ: 11	SEQ: 12	SEQ: 13

SEQ ID NO: 2> IL25Ab1_VL

QIVLTQSPATMSASPGEKVTMTCSASSSVTYMYWYQQKTGSSPRLLIYDTPNLASGVPV
RFSGSGSGTSYSLSISRVEAEDAATYYCQQWSSYPHTWTFGGGTKLEIK

SASSSVTYMY	DTPNLAS	QQWSSYPHTWT
SEQ: 14	SEQ: 15	SEQ: 16

SEQ ID NO: 3> IL25Ab2_VH

QVTLKESGPGHLPQSOTLSLTCSFSGFSLSTSGMGVGVWIRQPSGKGLEWLAHIWWDDVK
QYNPALQSRLTISKDTSSSQVFLKIASVDIADIATYYCARIGPVHHGFPYWGQGalVTVS
S

TSGMGVG	HIWWDDVKQYNPALQS	IGPVHHGFPY
SEQ: 17	SEQ: 18	SEQ: 19

SEQ ID NO: 4> IL25Ab2_VL

QIVLTQSPAIMSAFPGEKVTMSCSASSSVNYMYWHQOKPGSSPRLLIYDTSNLASGVPV
RFSGSGSGTSYSLSIRMEAEDAATYYCQQWTSYPPMYTFGGGTKLEIK

SASSSVNYMY	DTSNLAS	QQWTSYPPMYT
SEQ: 20	SEQ: 21	SEQ: 22

FIG. 1A

SEQ ID NO: 5> IL25Ab3_VH

EVQLQQSGPELVKPGGSRISCKASGYSFTGYTMNWVKQSHGKNLEWIGLINPDNGGT
SHKQRFMGKATLTVDKSSSTAYMELLSTSEDSAVYYCAREGYYGPSPFHHYAMDYWGQGTSTVTVSS

GYTMN	LINPDNGGTSHKQRFMG	EGYYGPSPFHHYAMDY
SEQ: 23	SEQ: 24	SEQ: 25

SEQ ID NO: 6> IL25Ab3_VL

DIQMTQTTSLSASLGDRVTISCSASQDISNYLNWYQOKPDGTIKLLIYYTSTLHSGVPSR
FSGSGSGTDYSLTISNLEPEDIAITYYCQQYSKLPYTFGGGTKLEIK

SASQDISNYLN	YTSTLHS	QQYSKLPYT
SEQ: 26	SEQ: 27	SEQ: 28

SEQ ID NO: 7> IL25Ab4_VH

QVTLKESGPGILQPSOTLSLTCSFSGFSLSTSGMGVSWIRQPSGKGLEWLAHIYWDDAKE
YNPSLKSRVTISKDTSRNQVFLRITSVDTADIATYYCARRGYDNYGGFVDWGQGTSLTVVSS

TSGMGVS	HIYWDDAKFYNPSLKS	RGYDNYGGFVD
SEQ: 29	SEQ: 30	SEQ: 31

SEQ ID NO: 8> IL25Ab4_VL

ENVLIQSPAIMSASLGEKVTMSCRASSSVNYMYWYQOKSDAPPKLWIYYTSNLAPGVP
GRFSGSGSGNSYSLTISMEGEDAATYYCQQFTSYPYMYTFGGGTKLEIK

RASSSVNYMY	YTSNLAP	QQFTSYPYMYT
SEQ: 32	SEQ: 33	SEQ: 34

FIG. 1B

SEQ ID NO: 9> IL25Ab5_VH

QVQLQQWGAGLLKPSETLSLTCAVYGGSFSAYYWSWIROS PGKGLEWIGEINHGNTN
YSPSLKSRVTISVDTSKSSQFSLKLSSVTAADTAAYYCARGPGITSWAFDFWDQGTMTV
SS

AYYWS	EINHGNTNYSPLKS	GPGITSWAFDF
SEQ: 35	SEQ: 36	SEQ: 37

SEQ ID NO: 10> IL25Ab5_VL

DIQMTQSPSSLSASVGDRVTIACQASQDINNYLNWYQOKPGKAPKLLIYDASNLETGVP
SRFSGNGSGTDFTFTISSLPEDIAATFYCQQYDTLPYTFGGGTKLEIR

QASQDINNYLN	DASNLET	QQYDTLPYT
SEQ: 38	SEQ: 39	SEQ: 40

SEQ ID NO: 44> IL25Ab6, Ab7, Ab9, Ab10_VH

QVQLVQSGAEVKKPGASVKVSKASGYSTGYTMNWVRQAPGOGLEWMGLINPDNG
GTSYKQKQFQGRVTMTVDKSISTAYMELSRLRSDDTAVYYCAREGYYPSPFHHYAMD
YWGQGTLVTVSS

GYTMN	LINPDNGGTSYKQKFQG	EGYYGPSPFHHYAMDY
SEQ: 23	SEQ: 49	SEQ: 25

SEQ ID NO: 45> IL25Ab6, Ab9_VL

DIQMTQSPSSLSASVGDRVTITCQASQDISNYLNWYQOKPGKAPKLLIYYTSTLHTGVPS
RFSGSGSGTDYTFRTISSLPEDIAATYYCQQYSKLPYTFGGGTKLEIK

QASQDISNYLN	YTSTLHT	QQYSKLPYT
SEQ: 50	SEQ: 51	SEQ: 28

SEQ ID NO: 46> IL25Ab7, Ab10_VL

DIQMTQSPSSLSASVGDRVTITCQASQDISNYLNWYQOKPDGTIKLLIYYTSTLHTGVPS
RFSGSGSGTDYTFRTISSLPEDIAATYYCQQYSKLPYTFGGGTKLEIK

QASQDISNYLN	YTSTLHT	QQYSKLPYT
SEQ: 50	SEQ: 51	SEQ: 28

FIG. 1C

SEQ ID NO: 47> IL25Ab8, Ab11_VH

QVQLVQSGAEVKKPGASVKVSCKASGYSFTGGYTMNWVRQAHGKNLEWMGLINPDNG
GTSHKQKQKQGRVTMTVDKSI~~ST~~AYMELSR~~LR~~SDDTA~~V~~YYCAREGYYGPSPFHHYAMD
YWQQGTLVTYSS

GYTMN	LINPDNGGTSHKQK <u>QK</u> Q	EGYYGPSPFHHYAMDY
SEQ: 23	SEQ: 52	SEQ: 25

SEQ ID NO: 48> IL25Ab8, Ab11_VL

DIQMTQSPSSLSASVGDRVTITCQASQDISNYLNWYQQKPDGTIKLLIYYTSILHTIGVPS
RFGSGSGTDYTLTISSLQPEDIA~~T~~YYCQYSKLPYTFGGGTKLEIK

QASQDISNYLN	YTSTLHT	QQYSKLPYT
SEQ: 50	SEQ: 51	SEQ: 28

FIG. 1D

SEQ ID NO: 41>NP_073626.1 interleukin-25 isoform 1 precursor [Homo sapiens]
MRERPRLGEDSSLISLFLQVVAFLAMVMGHTYSHWPSCCPSKGQDTSEELLRWSTVPV
PPLEPARPNRHPESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQ
TGSMDPRGNSELLYHNQTVFYRRPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVM
G

SEQ ID NO: 42>NP_542767.1 interleukin-25 precursor [Mus musculus]
MYQAVAFLAMIVGHTVSLRIQEGCSHLPSCCPSKEQEPPEEWLKWSSASVSPPEPLSHT
HHAESCRASKDGPLNSRAISPWSYELDRDLNRPQDLYHARCLCPHCVSLQTGSMDP
LGNSVPLYHNQTVFYRRPCHGEEGTHRRYCLERRLYRVSLACVCVRPRVMA

SEQ ID NO: 43>XP_005560918.1 interleukin-25 isoform X1 [Macaca fascicularis]
MRGQPRLGENSSLISLFLQVIAFLAMVMGHTYSHWPSCCPSKGYPSEELLRWSTVPVPP
LKPASLDFHSVSCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQT
GSHMDPRGNSELLYHNQTVFYRRPCHGKKGNHKGYCLERRLYRVSLACVCVRPRVMG

SEQ ID NO: 53>Mouse IgG1 constant region
AKTTPPSVYPLAPGSAAQTNSMVTLGCLVKGYFPEPVTVTWNSGSLSSGVHTFPAVLQS
DLYTLSSSVTVPSSTWPSETVTCNVAHPASSTKVDKKIVPRDCGCKPCICTVPEVSSVFIF
PPKPKDVLITLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHTAQTQPREEQFNSTFRSV
SELPIMHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMAKDK
VSLTCMITDFFPEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKLVQKSNWEAG
NTFTCSVLHEGLHNHHTKSLSHSPGK

SEQ ID NO: 54>Mouse Kappa constant region
RADAAPTVSIFPPSSEQLTSGGASVVCFLNFPYKPDINVKWKIDGSERQNGVLNSWTDQ
DSKDSTYSMSSTLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC

FIG. 2A

SEQ NO: **55**>Human IgG1 constant region

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS
GLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG
PSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY
NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR
EEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

SEQ NO: **56**>Human IgG1 constant region with YTE mutations

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSS
GLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGG
PSVFLFPPKPKDTLYITREPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY
NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR
EEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

SEQ NO: **57**>Human Kappa constant region

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ
DSKDSTYLSSTLTLSKADYEEKHKVYACEVTHQGLSSPVTKSFNRGEC

FIG. 2B

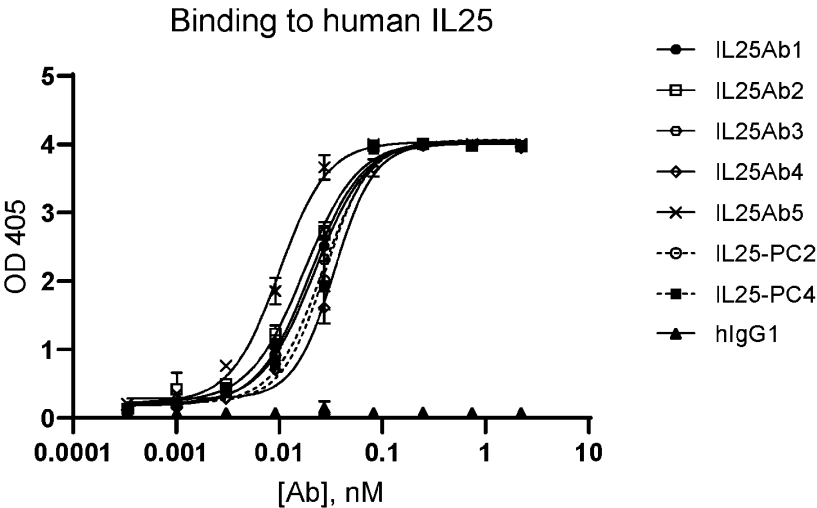


FIG. 3A

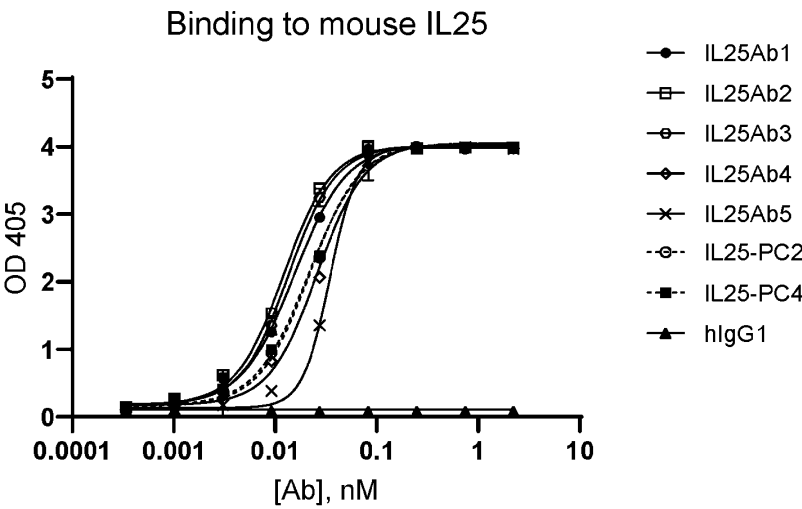


FIG. 3B

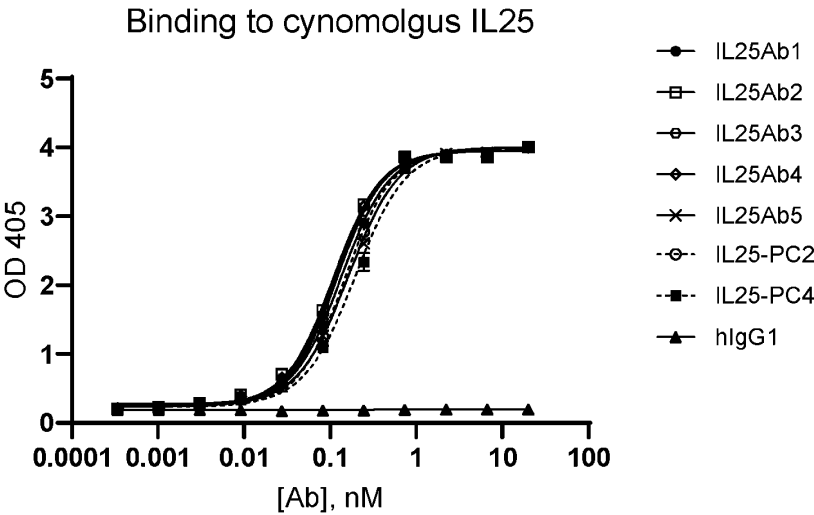


FIG. 3C

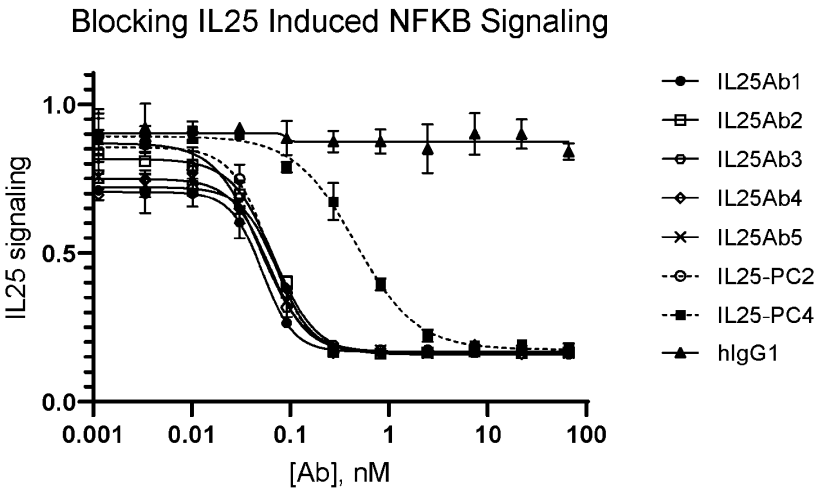


FIG. 4

Inhibition of IL-25 Induced CXCL1 Production in HT-29

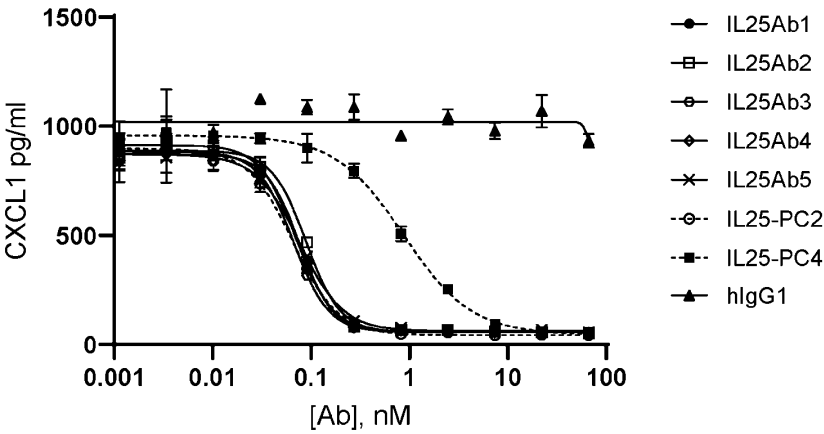


FIG. 5

Inhibition of IL25 induced IL5 Production in PBMCs

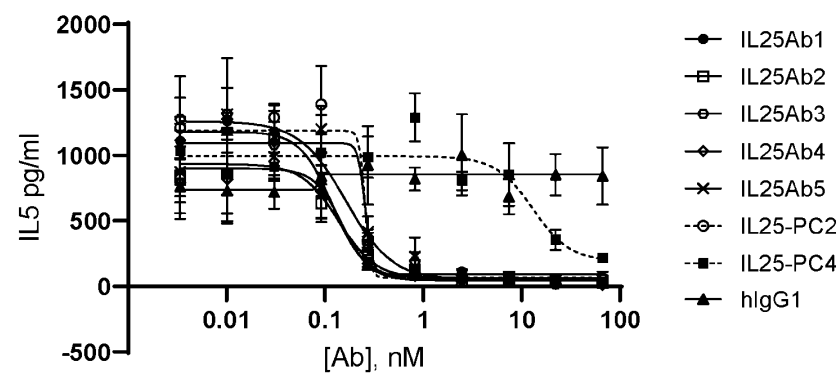


FIG. 6

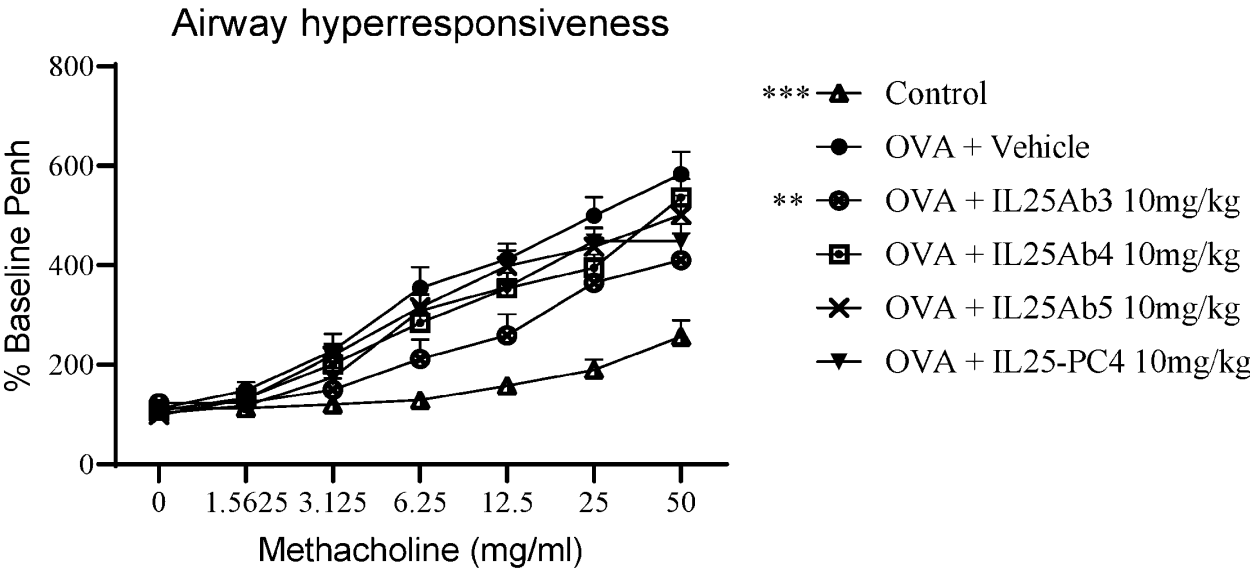


FIG. 7A

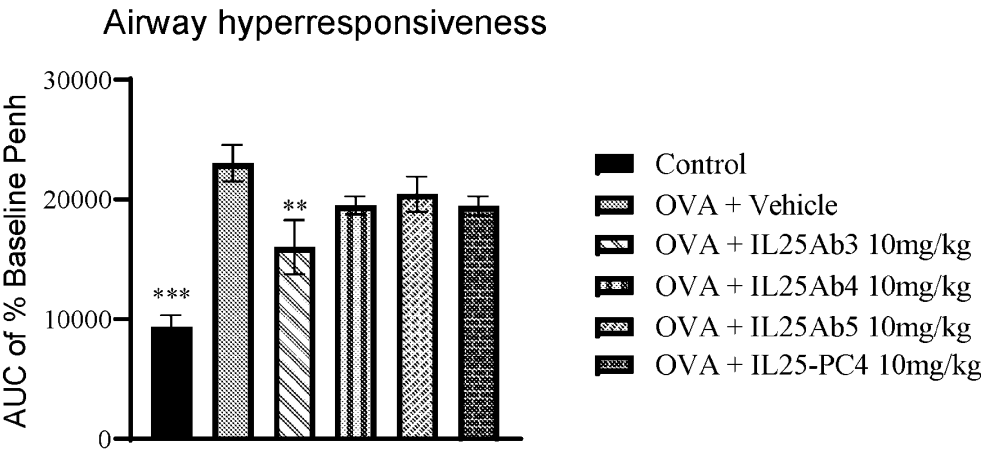


FIG. 7B

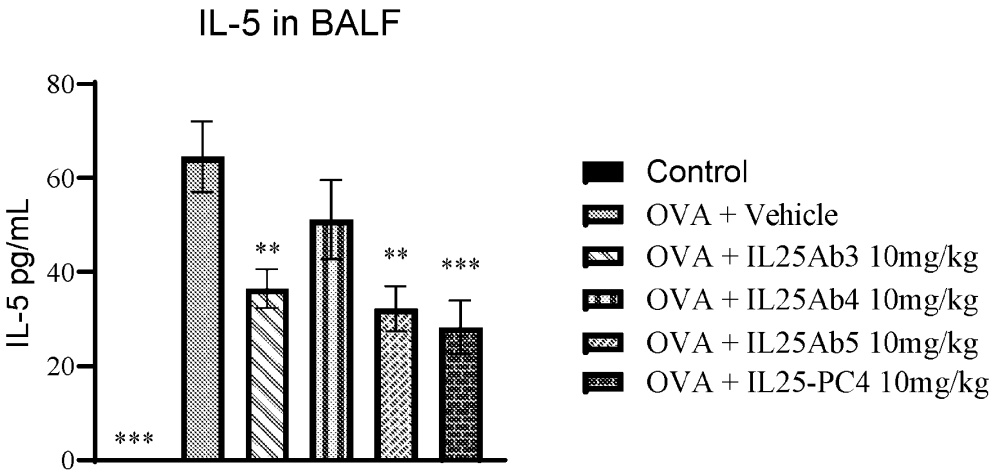


FIG. 8

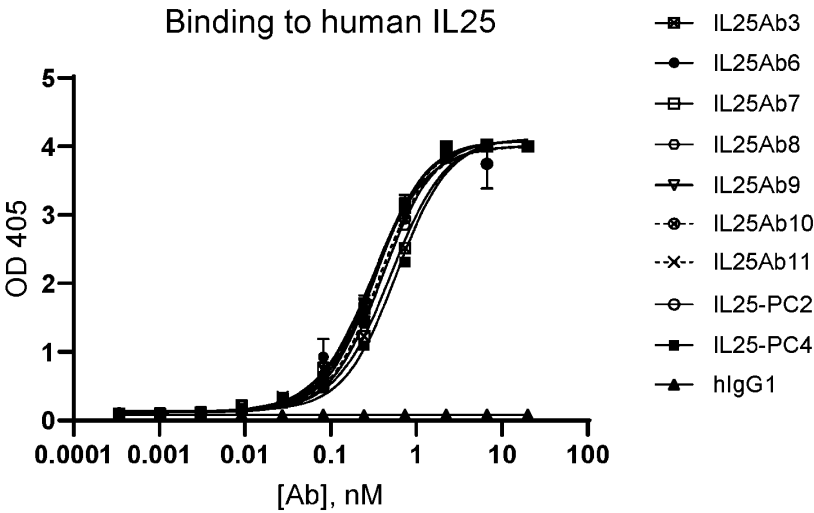


FIG. 9A

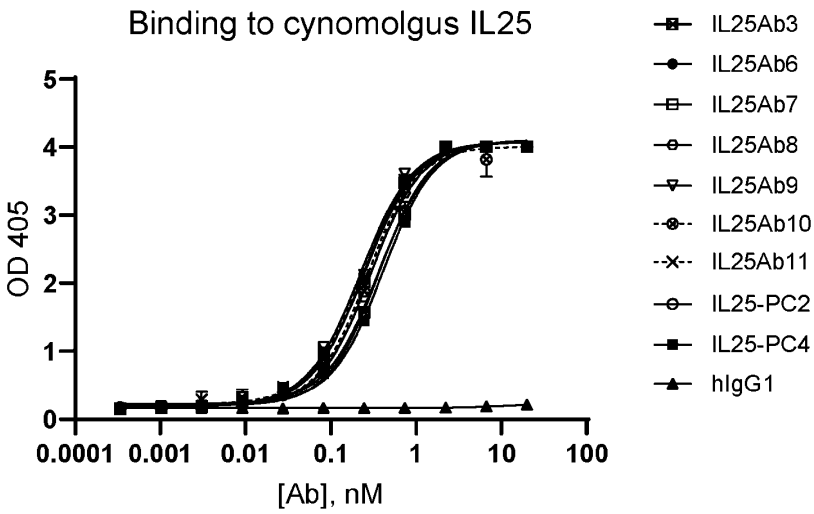


FIG. 9B

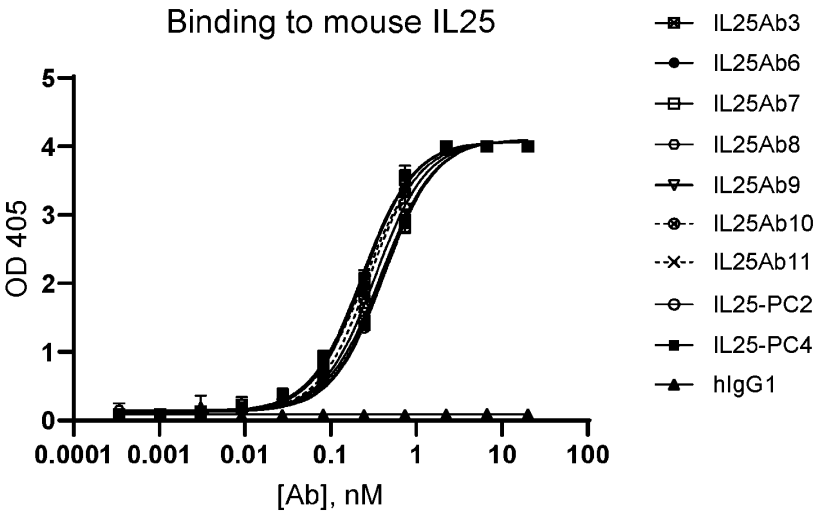


FIG. 9C

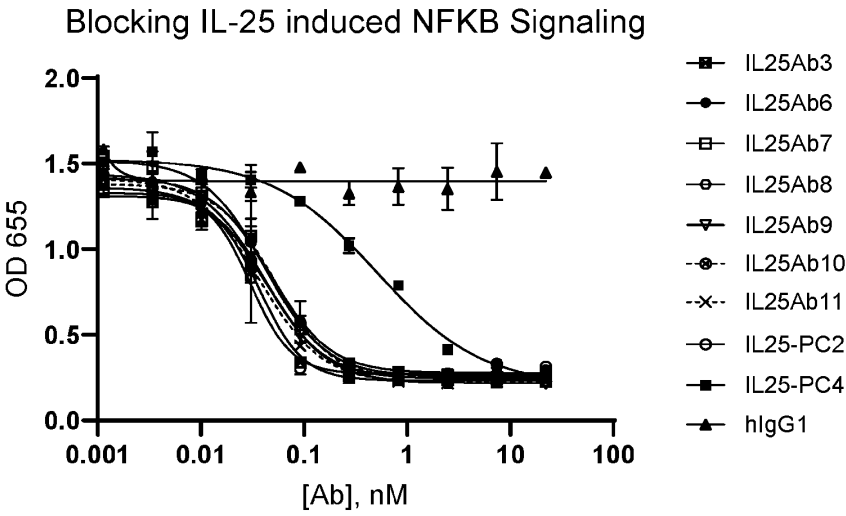


FIG. 10

Inhibition of IL-25 induced CXCL1 Production in HT-29

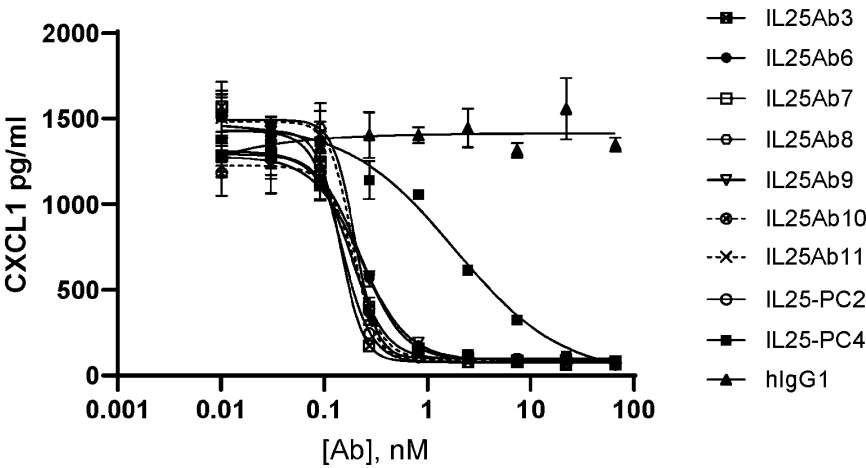


FIG. 11

Inhibition of IL-25 induced IL5 Production in PBMCs

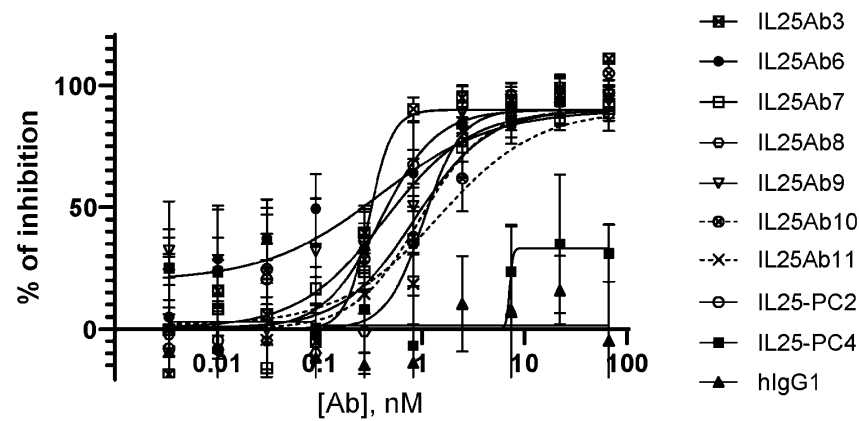


FIG. 12