

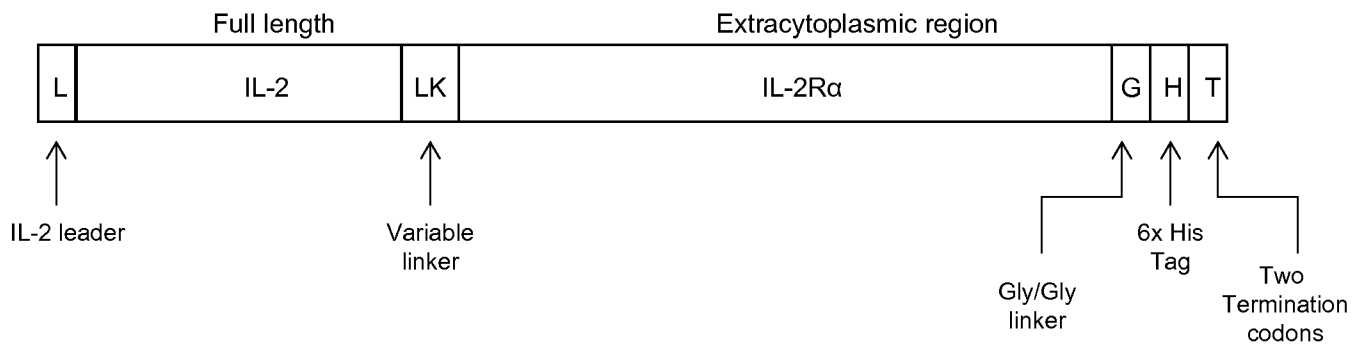


FIG. 1

REPLACEMENT SHEET

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Construct	Deduced protein Sequence
IL-2	MSMQQLASCVTLLVLLVNSAPTSSSTSSSTAEAQQQQQQQQQHLEQLLMDIQELLS
IL-2-(G4S)4-IL-2R α	MSMQQLASCVTLLVLLVNSAPTSSSTSSSTAEAQQQQ-QQQQQQHLEQLLMDIQELLS
IL-2-(G4S)5-IL-2R α	MSMQQLASCVTLLVLLVNSAPTSSSTSSSTAEAQQQQ-QQQQQQHLEQLLMDIQELLS
IL-2-(G3S)4-IL-2R α	MSMQQLASCVTLLVLLVNSAPTSSSTSSSTAEAQQQQ-QQQQQQHLEQLLMDIQELLS
IL-2-(G3S)3-IL-2R α	MSMQQLASCVTLLVLLVNSAPTSSSTSSSTAEAQQQQ-QQQQQQHLEQLLMDIQELLS
IL-2R α	-----
IL-2	RMENYRNKLPRMLTFKPYLPKQATELKDQLCEDELGPIRHVLDLTQSKSFQLEDAENF
IL-2-(G4S)4-IL-2R α	RMENYRNKLPRMLTFKPYLPKQATELKDQLCEDELGPIRHVLDLTQSKSFQLEDAENF
IL-2-(G4S)5-IL-2R α	RMENYRNKLPRMLTFKPYLPKQATELKDQLCEDELGPIRHVLDLTQSKSFQLEDAENF
IL-2-(G3S)4-IL-2R α	RMENYRNKLPRMLTFKPYLPKQATELKDQLCEDELGPIRHVLDLTQSKSFQLEDAENF
IL-2-(G3S)3-IL-2R α	RMENYRNKLPRMLTFKPYLPKQATELKDQLCEDELGPIRHVLDLTQSKSFQLEDAENF
IL-2R α	-----
IL-2	ISNIRVTVVKLKGSNTFECQFDESATVVDLRRWIAFCQSIISTSPQ-----
IL-2-(G4S)4-IL-2R α	ISNIRVTVVKLKGSNTFECQFDESATVVDLRRWIAFCQSIISTSPQGGGGSGGGG9-
IL-2-(G4S)5-IL-2R α	ISNIRVTVVKLKGSNTFECQFDESATVVDLRRWIAFCQSIISTSPQGGGGSGGGGSG
IL-2-(G3S)4-IL-2R α	ISNIRVTVVKLKGSNTFECQFDESATVVDLRRWIAFCQSIISTSPQGGGGSGGG9---
IL-2-(G3S)3-IL-2R α	ISNIRVTVVKLKGSNTFECQFDESATVVDLRRWIAFCQSIISTSPQGGGGSGG----
IL-2R α	-----
IL-2	-----GGGGSGGGSELCLYDPPEVPNATFKALS YKNGTILNCECKRGFRRLKELVYMRCL
IL-2-(G4S)4-IL-2R α	GGGGSGGGSGGGSELCLYDPPEVPNATFKALS YKNGTILNCECKRGFRRLKELVYMRCL
IL-2-(G4S)5-IL-2R α	-----GGGGSGGGSELCLYDPPEVPNATFKALS YKNGTILNCECKRGFRRLKELVYMRCL
IL-2-(G3S)4-IL-2R α	-----GGGGSGGGSELCLYDPPEVPNATFKALS YKNGTILNCECKRGFRRLKELVYMRCL
IL-2-(G3S)3-IL-2R α	-----ELCLYDPPEVPNATFKALS YKNGTILNCECKRGFRRLKELVYMRCL
IL-2R α	-----
IL-2	GNSWSNCCQTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2-(G4S)4-IL-2R α	GNSWSNCCQTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2-(G4S)5-IL-2R α	GNSWSNCCQTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2-(G3S)4-IL-2R α	GNSWSNCCQTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2-(G3S)3-IL-2R α	GNSWSNCCQTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2R α	GNSWSNCCQTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGTQPOLTCVDERHH
IL-2-(G4S)4-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGTQPOLTCVDERHH
IL-2-(G4S)5-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGTQPOLTCVDERHH
IL-2-(G3S)4-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGTQPOLTCVDERHH
IL-2-(G3S)3-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGTQPOLTCVDERHH
IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGTQPOLTCVDERHH
IL-2	-----RFLASEESQGSRNSSPESETSCPITTTDFPQPTETTAMTETFVLTMEYKGGHHHHHH
IL-2-(G4S)4-IL-2R α	RFLASEESQGSRNSSPESETSCPITTTDFPQPTETTAMTETFVLTMEYKGGHHHHHH
IL-2-(G4S)5-IL-2R α	RFLASEESQGSRNSSPESETSCPITTTDFPQPTETTAMTETFVLTMEYKGGHHHHHH
IL-2-(G3S)4-IL-2R α	RFLASEESQGSRNSSPESETSCPITTTDFPQPTETTAMTETFVLTMEYKGGHHHHHH
IL-2-(G3S)3-IL-2R α	RFLASEESQGSRNSSPESETSCPITTTDFPQPTETTAMTETFVLTMEYKGGHHHHHH
IL-2R α	RFLASEESQGSRNSSPESETSCPITTTDFPQPTETTAMTETFVLTMEYK-----

FIG. 2A

IL-2	MYRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2 - (G3S) 2 - IL-2R α	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2 - (G3S) 3 - IL-2R α	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2 - (G3S) 4 - IL-2R α	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2 - (G4S) 4 - IL-2R α	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2R α	-----
IL-2	TFKFYMPKKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2 - (G3S) 2 - IL-2R α	TFKFYMPKKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2 - (G3S) 3 - IL-2R α	TFKFYMPKKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2 - (G3S) 4 - IL-2R α	TFKFYMPKAATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2 - (G4S) 4 - IL-2R α	TFKFYMPKAATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2R α	-----
IL-2	TTFMCEYADETATIVEFLNRWITFCQSIISTLT-----
IL-2 - (G3S) 2 - IL-2R α	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGS-----GGGSELCDDDP
IL-2 - (G3S) 3 - IL-2R α	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGS-----GGGSGGGSELCDDDP
IL-2 - (G3S) 4 - IL-2R α	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGSGGG---SGGGSGGGSELCDDCP
IL-2 - (G4S) 4 - IL-2R α	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGSGGGGSGGGSGGGSGGGSELCDDDP
IL-2R α	-----ELCDDDP
IL-2	PEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTGNSSHSSWDNQCQCTSSATR
IL-2 - (G3S) 2 - IL-2R α	PEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTGNSSHSSWDNQCQCTSSATR
IL-2 - (G3S) 3 - IL-2R α	PEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTGNSSHSSWDNQCQCTSSATR
IL-2 - (G3S) 4 - IL-2R α	PEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTGNSSHSSWDNQCQCTSSATR
IL-2 - (G4S) 4 - IL-2R α	PEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTGNSSHSSWDNQCQCTSSATR
IL-2R α	-----
IL-2	-----
IL-2 - (G3S) 2 - IL-2R α	NTTKQVTPQPPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2 - (G3S) 3 - IL-2R α	NTTKQVTPQPPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2 - (G3S) 4 - IL-2R α	NTTKQVTPQPPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2 - (G4S) 4 - IL-2R α	NTTKQVTPQPPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2R α	NTTKQVTPQPPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2	-----
IL-2 - (G3S) 2 - IL-2R α	YYQCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPE
IL-2 - (G3S) 3 - IL-2R α	YYQCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPE
IL-2 - (G3S) 4 - IL-2R α	YYQCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPE
IL-2 - (G4S) 4 - IL-2R α	YYQCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPE
IL-2R α	YYQCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPE
IL-2	-----
IL-2 - (G3S) 2 - IL-2R α	SETSCLVTTTDFQIQTEMAATMETSIFTTEYQGGHHHHHH
IL-2 - (G3S) 3 - IL-2R α	SETSCLVTTTDFQIQTEMAATMETSIFTTEYQGGHHHHHH
IL-2 - (G3S) 4 - IL-2R α	SETSCLVTTTDFQIQTEMAATMETSIFTTEYQGGHHHHHH
IL-2 - (G4S) 4 - IL-2R α	SETSCLVTTTDFQIQTEMAATMETSIFTTEYQGGHHHHHH
IL-2R α	SETSCLVTTTDFQIQTEMAATMETSIFTTEYQ-----

FIG. 2B

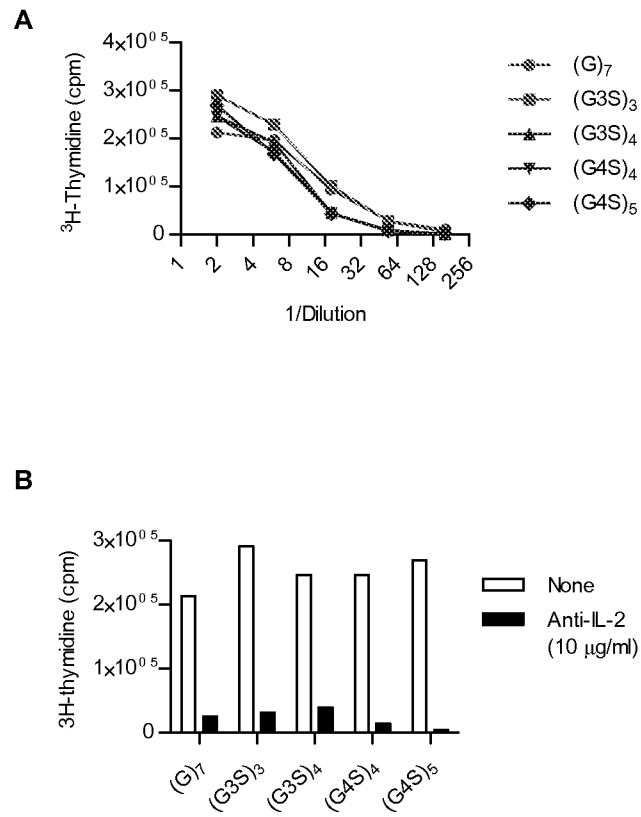
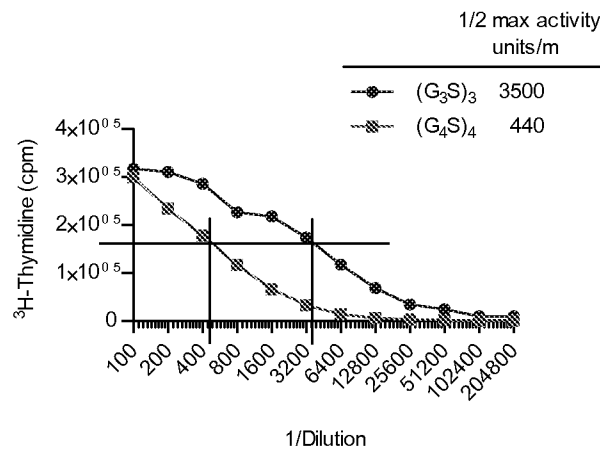


FIG. 3

A



B

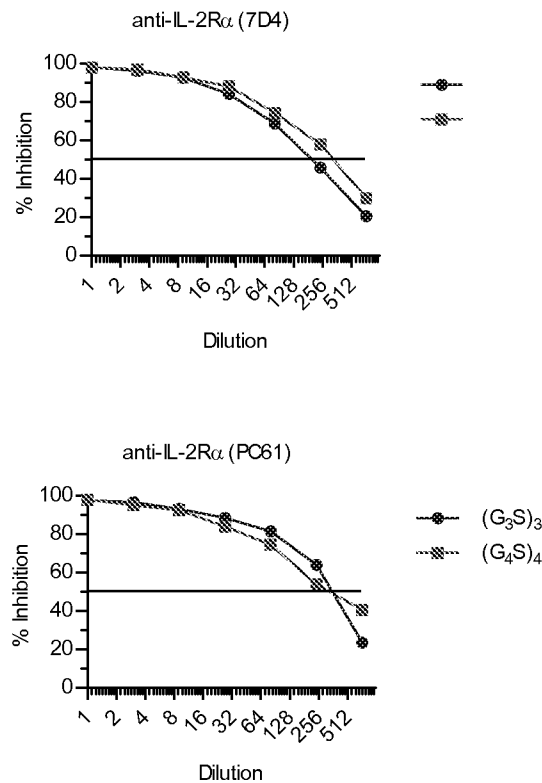


FIG. 4

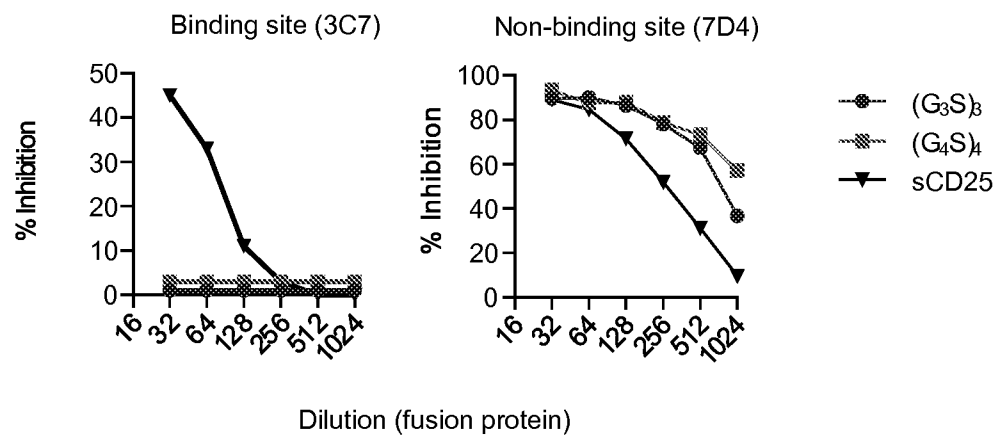


FIG. 5

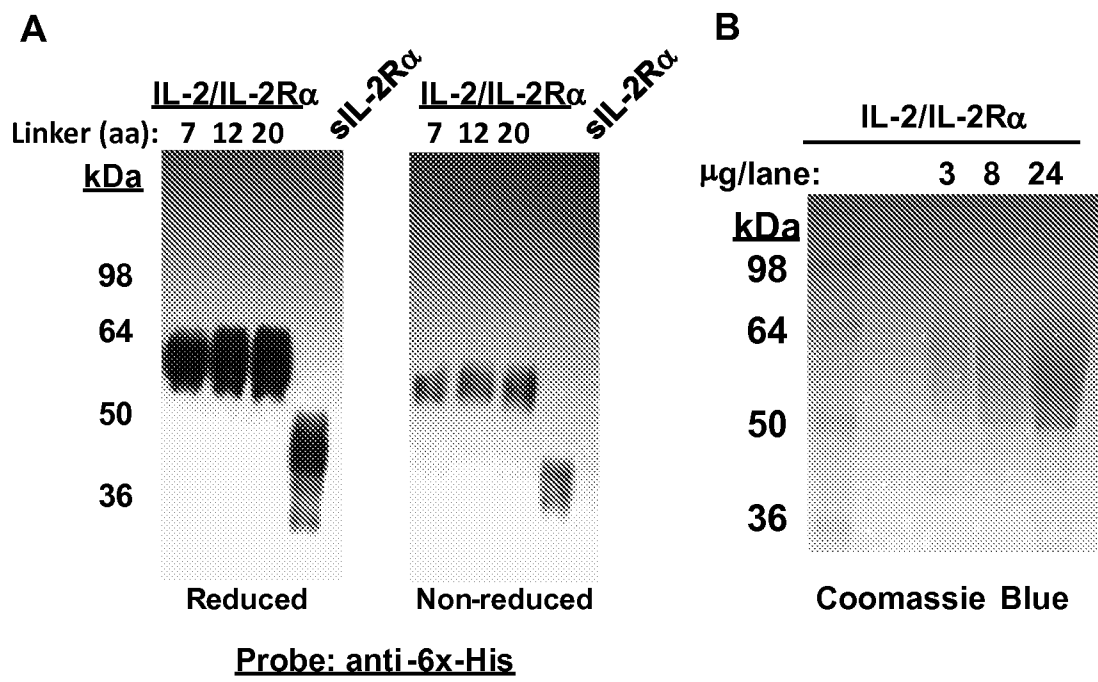


FIG. 6

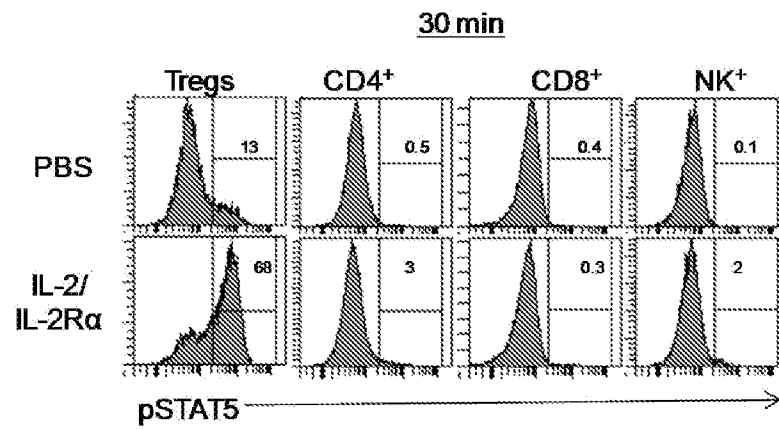


FIG. 7

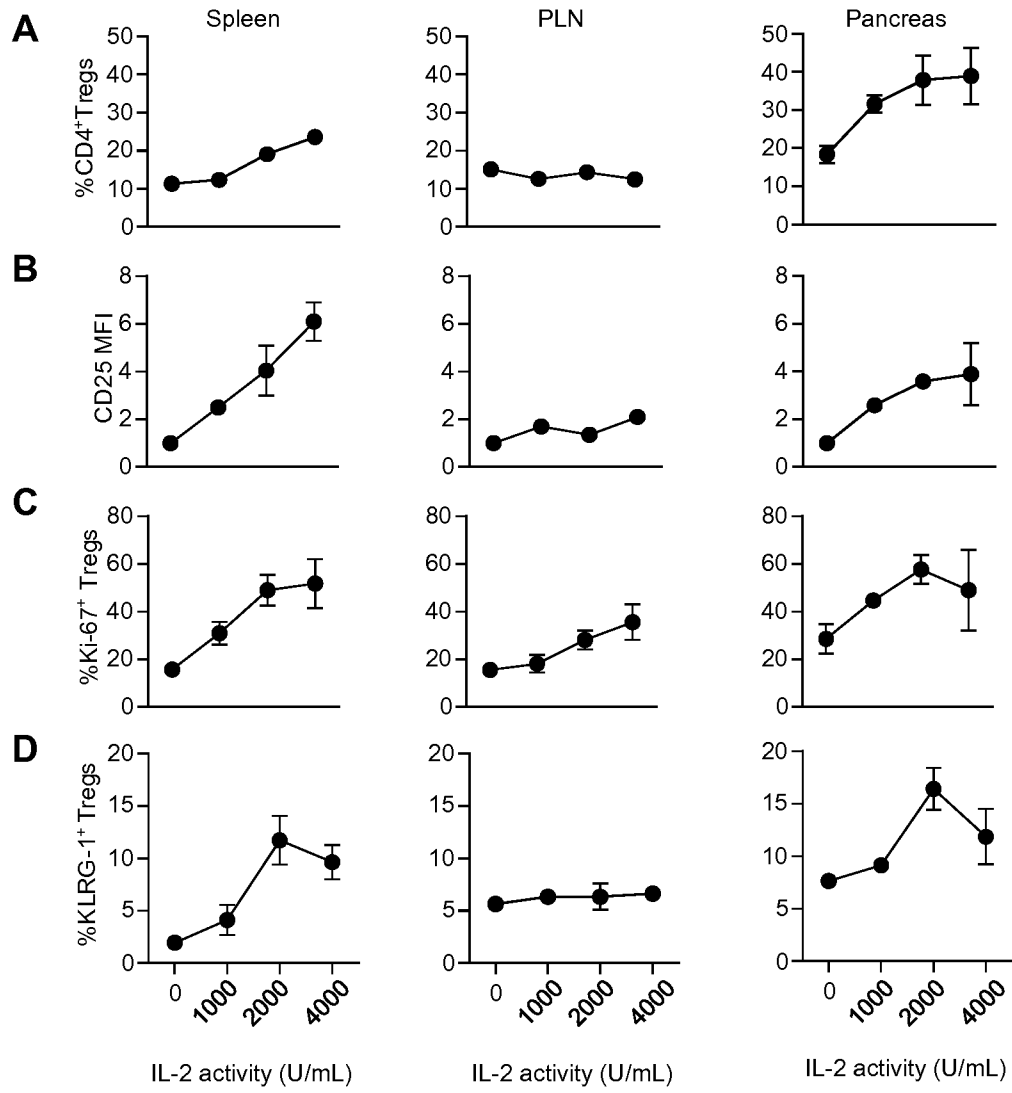


FIG. 8

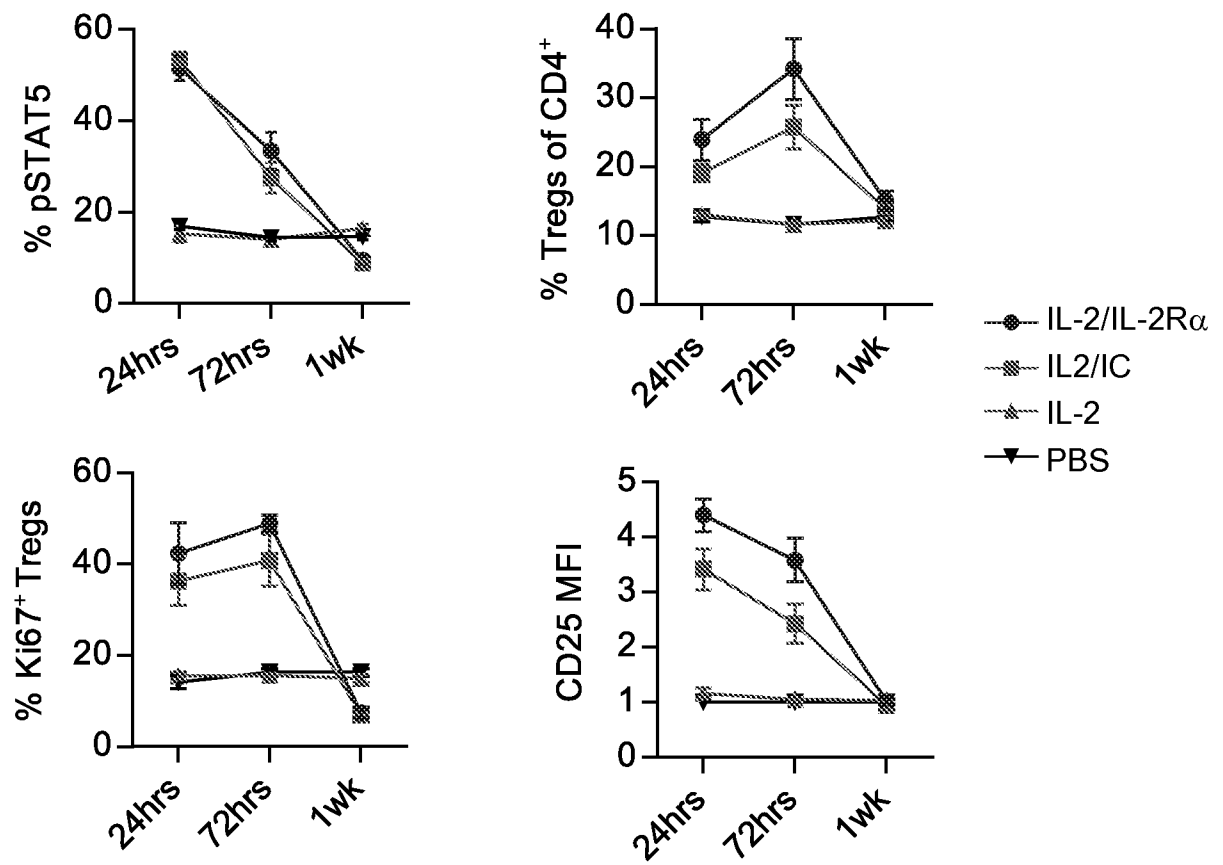


FIG. 9

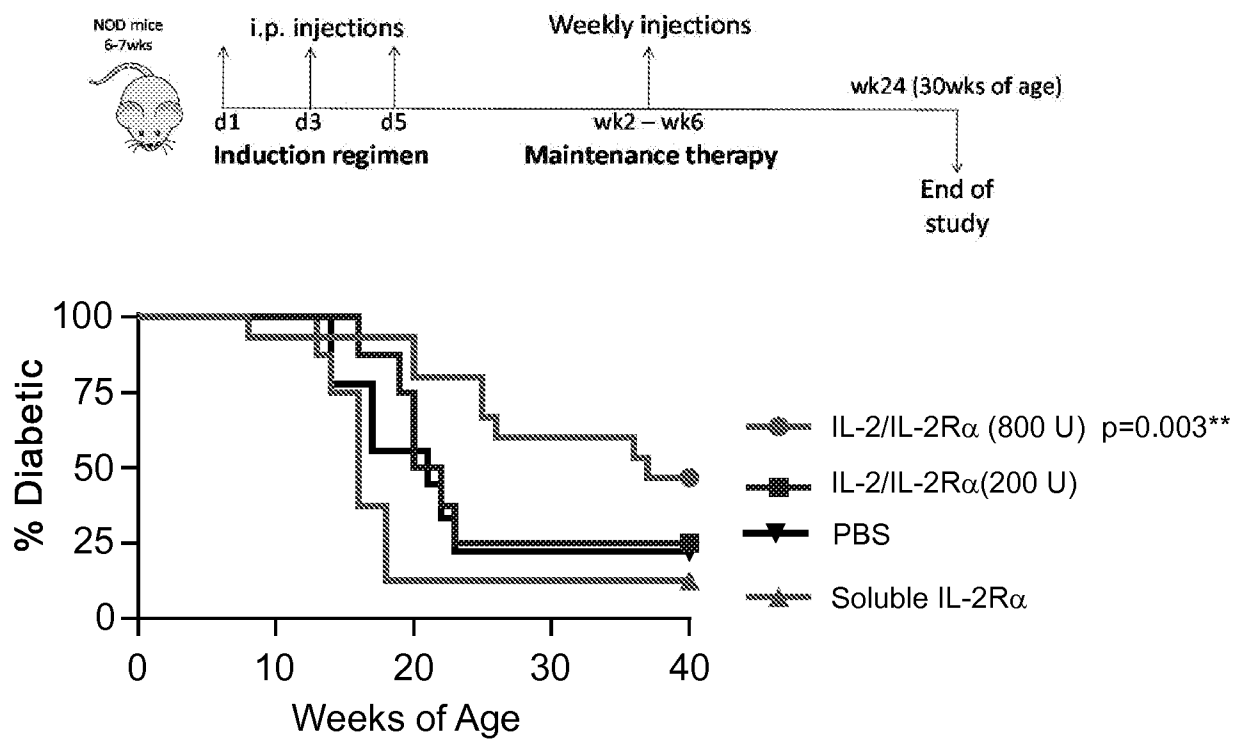


FIG. 10

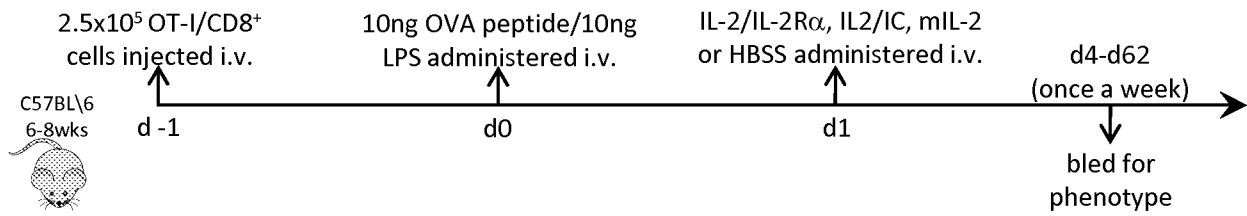
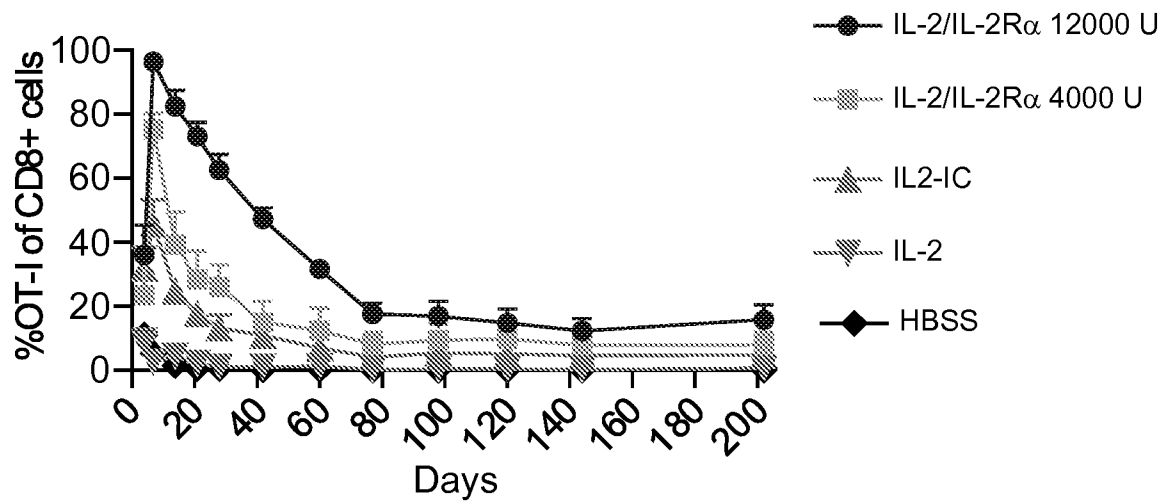


FIG. 11

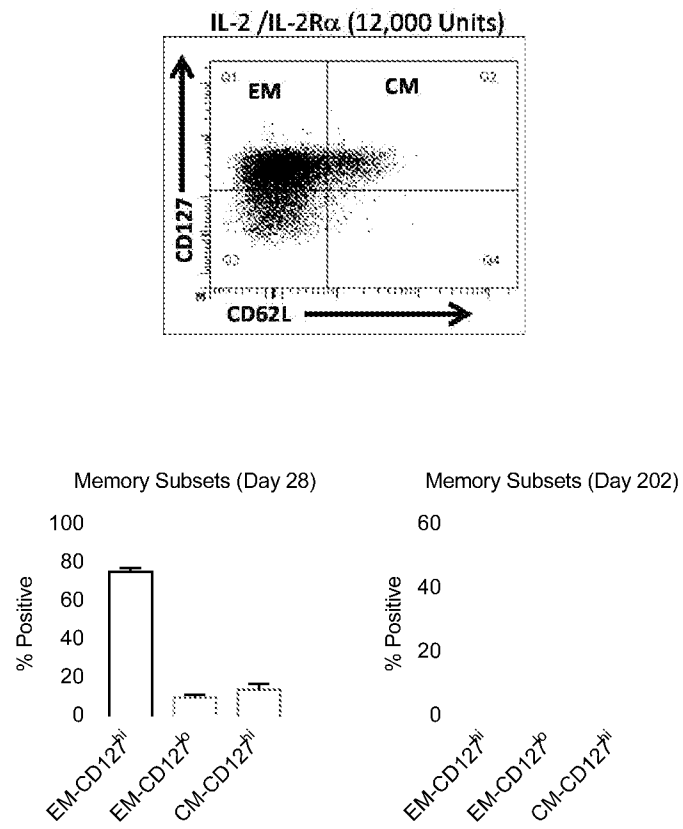


FIG. 12

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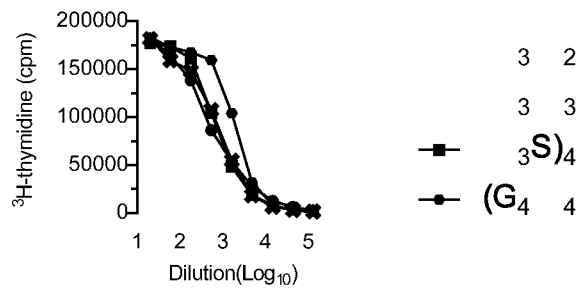
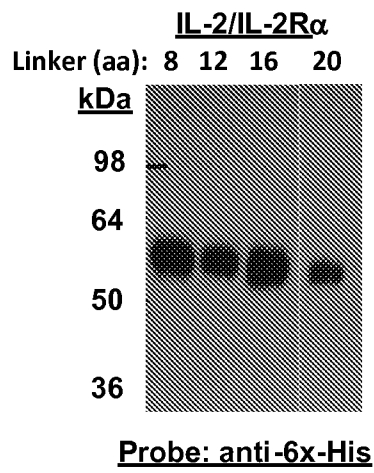


FIG. 13

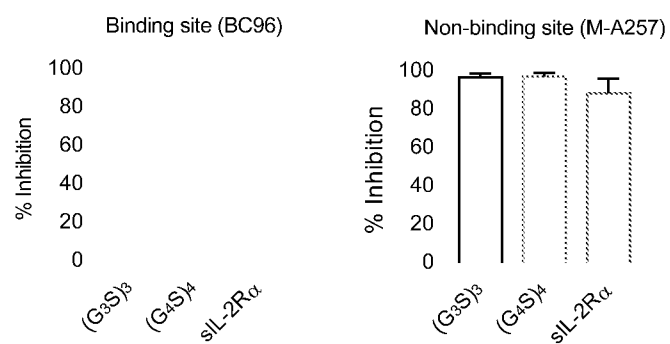


FIG. 14



FIG. 15