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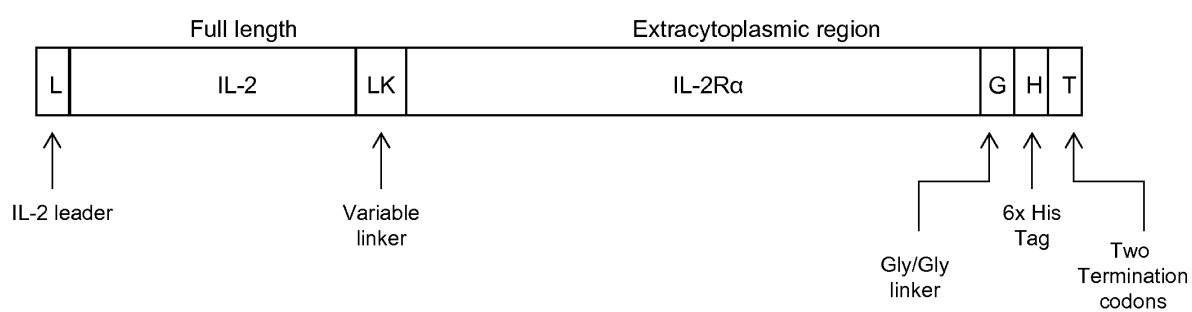


FIG. 1

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Construct	Deduced protein Sequence
IL-2	MSMQLASCVTLTLVLLVNSAPTSSSTSSSTAEAQQQQOQQQQQHEQLLMDLQELLS
IL-2-(G4S)4-IL-2R α	MSMQLASCVTLTLVLLVNSAPTSSSTSSSTAEAQQQQOQQQQQHEQLLMDLQELLS
IL-2-(G4S)5-IL-2R α	MSMQLASCVTLTLVLLVNSAPTSSSTSSSTAEAQQQQOQQQQQHEQLLMDLQELLS
IL-2-(G3S)4-IL-2R α	MSMQLASCVTLTLVLLVNSAPTSSSTSSSTAEAQQQQOQQQQQHEQLLMDLQELLS
IL-2-(G3S)3-IL-2R α	MSMQLASCVTLTLVLLVNSAPTSSSTSSSTAEAQQQQOQQQQQHEQLLMDLQELLS
IL-2R α	-----
IL-2	RMENYRNKLPRLMTFKFYLPKQATELKDQLCEDELGPIRHHVLDLTQSKSFQLEDAENF
IL-2-(G4S)4-IL-2R α	RMENYRNKLPRLMTFKFYLPKQATELKDQLCEDELGPIRHHVLDLTQSKSFQLEDAENF
IL-2-(G4S)5-IL-2R α	RMENYRNKLPRLMTFKFYLPKQATELKDQLCEDELGPIRHHVLDLTQSKSFQLEDAENF
IL-2-(G3S)4-IL-2R α	RMENYRNKLPRLMTFKFYLPKQATELKDQLCEDELGPIRHHVLDLTQSKSFQLEDAENF
IL-2-(G3S)3-IL-2R α	RMENYRNKLPRLMTFKFYLPKQATELKDQLCEDELGPIRHHVLDLTQSKSFQLEDAENF
IL-2R α	-----
IL-2	ISNIRVTVVKLKGSNDTFECQFDDDESATVVDFLRHWIAFCQSIISTSPQ-----
IL-2-(G4S)4-IL-2R α	ISNIRVTVVKLKGSNDTFECQFDDDESATVVDFLRHWIAFCQSIISTSPQGGGSGGGGSG9-
IL-2-(G4S)5-IL-2R α	ISNIRVTVVKLKGSNDTFECQFDDDESATVVDFLRHWIAFCQSIISTSPQGGGSGGGGSGG
IL-2-(G3S)4-IL-2R α	ISNIRVTVVKLKGSNDTFECQFDDDESATVVDFLRHWIAFCQSIISTSPQGGGSGGGGSG9--
IL-2-(G3S)3-IL-2R α	ISNIRVTVVKLKGSNDTFECQFDDDESATVVDFLRHWIAFCQSIISTSPQGGGSGG9----
IL-2R α	-----
IL-2	-----
IL-2-(G4S)4-IL-2R α	-----GGGGSGGGSELCLYDPPPEVPNATFKALSYKNGTILNCECKRGFRRLKELVYMRCL
IL-2-(G4S)5-IL-2R α	GGGGSGGGSGGGSELCLYDPPPEVPNATFKALSYKNGTILNCECKRGFRRLKELVYMRCL
IL-2-(G3S)4-IL-2R α	-----GGGGSGGGSELCLYDPPPEVPNATFKALSYKNGTILNCECKRGFRRLKELVYMRCL
IL-2-(G3S)3-IL-2R α	-----GGGGSGGGSELCLYDPPPEVPNATFKALSYKNGTILNCECKRGFRRLKELVYMRCL
IL-2R α	-----ELCLYDPPPEVPNATFKALSYKNGTILNCECKRGFRRLKELVYMRCL
IL-2	-----
IL-2-(G4S)4-IL-2R α	GNSWSSNCQCTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2-(G4S)5-IL-2R α	GNSWSSNCQCTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2-(G3S)4-IL-2R α	GNSWSSNCQCTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2-(G3S)3-IL-2R α	GNSWSSNCQCTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2R α	GNSWSSNCQCTSNSHDKSRKQVTAQLEHQKEQQTITDMQKPTQSMHQENLTGHCREPPPW
IL-2	-----
IL-2-(G4S)4-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGMTQPOLTCVDREHH
IL-2-(G4S)5-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGMTQPOLTCVDREHH
IL-2-(G3S)4-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGMTQPOLTCVDREHH
IL-2-(G3S)3-IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGMTQPOLTCVDREHH
IL-2R α	KHEDSKRIYHFVEGQSVHYECIPGYKALQRGPAISICKMKCGKTGMTQPOLTCVDREHH
IL-2	-----
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

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IL-2	MYRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2-(G3S) 2-IL-2Ra	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2-(G3S) 3-IL-2Ra	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2-(G3S) 4-IL-2Ra	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2-(G4S) 4-IL-2Ra	MDRMQLLSICIALSLALVTNSAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRML
IL-2Ra	-----
IL-2	TFKFMPPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2-(G3S) 2-IL-2Ra	TFKFMPPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2-(G3S) 3-IL-2Ra	TFKFMPPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2-(G3S) 4-IL-2Ra	TFKFMPPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2-(G4S) 4-IL-2Ra	TFKFMPPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSE
IL-2Ra	-----
IL-2	TTFMCEYADETATIVEFLNRWITFCQSIISTLT-----GGGSELCDDDP
IL-2-(G3S) 2-IL-2Ra	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGSGGG-----GGGSELCDDDP
IL-2-(G3S) 3-IL-2Ra	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGSGGG-----GGGSELCDDDP
IL-2-(G3S) 4-IL-2Ra	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGSGGG-----GGGSELCDDDP
IL-2-(G4S) 4-IL-2Ra	TTFMCEYADETATIVEFLNRWITFCQSIISTLTGGGSGGGSGGGSGGGSGGGSELCDDDP
IL-2Ra	-----ELCDDDP
IL-2	PEIPHATFKAMAYKEGTMNCECKRGFRRIKSGSLYMLCTGNSSSHSSWDNQCCTSSATR
IL-2-(G3S) 2-IL-2Ra	PEIPHATFKAMAYKEGTMNCECKRGFRRIKSGSLYMLCTGNSSSHSSWDNQCCTSSATR
IL-2-(G3S) 3-IL-2Ra	PEIPHATFKAMAYKEGTMNCECKRGFRRIKSGSLYMLCTGNSSSHSSWDNQCCTSSATR
IL-2-(G3S) 4-IL-2Ra	PEIPHATFKAMAYKEGTMNCECKRGFRRIKSGSLYMLCTGNSSSHSSWDNQCCTSSATR
IL-2-(G4S) 4-IL-2Ra	PEIPHATFKAMAYKEGTMNCECKRGFRRIKSGSLYMLCTGNSSSHSSWDNQCCTSSATR
IL-2Ra	PEIPHATFKAMAYKEGTMNCECKRGFRRIKSGSLYMLCTGNSSSHSSWDNQCCTSSATR
IL-2	NTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2-(G3S) 2-IL-2Ra	NTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2-(G3S) 3-IL-2Ra	NTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2-(G3S) 4-IL-2Ra	NTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2-(G4S) 4-IL-2Ra	NTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2Ra	NTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMV
IL-2	YYQCVQGYRALHRGPAESVCKMTHGKTRWTPQLICTGEMETSQFPGEKPKQASPEGRPE
IL-2-(G3S) 2-IL-2Ra	YYQCVQGYRALHRGPAESVCKMTHGKTRWTPQLICTGEMETSQFPGEKPKQASPEGRPE
IL-2-(G3S) 3-IL-2Ra	YYQCVQGYRALHRGPAESVCKMTHGKTRWTPQLICTGEMETSQFPGEKPKQASPEGRPE
IL-2-(G3S) 4-IL-2Ra	YYQCVQGYRALHRGPAESVCKMTHGKTRWTPQLICTGEMETSQFPGEKPKQASPEGRPE
IL-2-(G4S) 4-IL-2Ra	YYQCVQGYRALHRGPAESVCKMTHGKTRWTPQLICTGEMETSQFPGEKPKQASPEGRPE
IL-2Ra	YYQCVQGYRALHRGPAESVCKMTHGKTRWTPQLICTGEMETSQFPGEKPKQASPEGRPE
IL-2	SETSCLVTTTDFQIOTEMAATMETSIFTTEYQGGHHHHHH
IL-2-(G3S) 2-IL-2Ra	SETSCLVTTTDFQIOTEMAATMETSIFTTEYQGGHHHHHH
IL-2-(G3S) 3-IL-2Ra	SETSCLVTTTDFQIOTEMAATMETSIFTTEYQGGHHHHHH
IL-2-(G3S) 4-IL-2Ra	SETSCLVTTTDFQIOTEMAATMETSIFTTEYQGGHHHHHH
IL-2-(G4S) 4-IL-2Ra	SETSCLVTTTDFQIOTEMAATMETSIFTTEYQGGHHHHHH
IL-2Ra	SETSCLVTTTDFQIOTEMAATMETSIFTTEYQ-----

FIG. 2B

SUBSTITUTE SHEET (RULE 26)

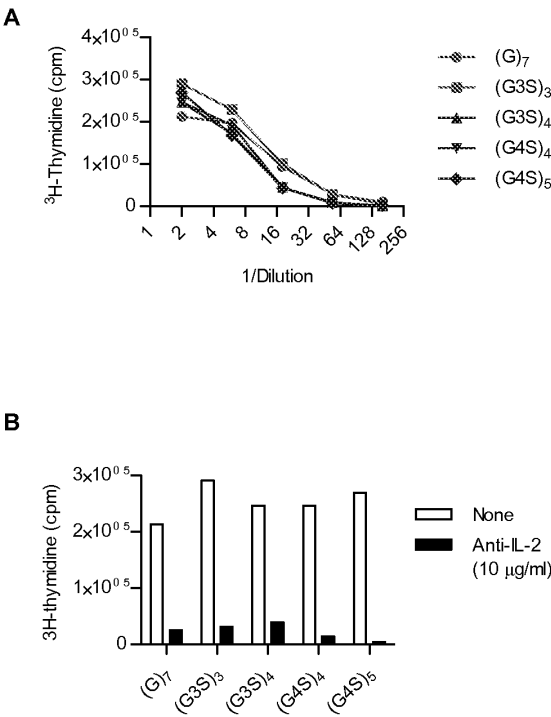
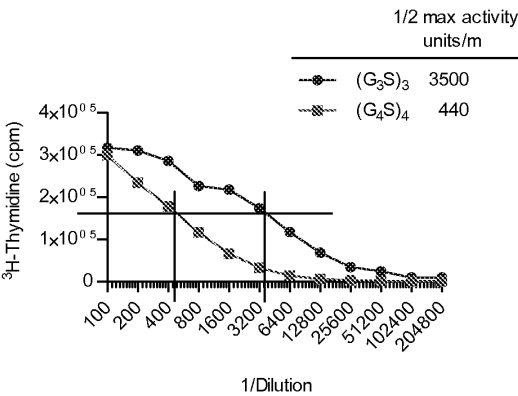


FIG. 3

A



B

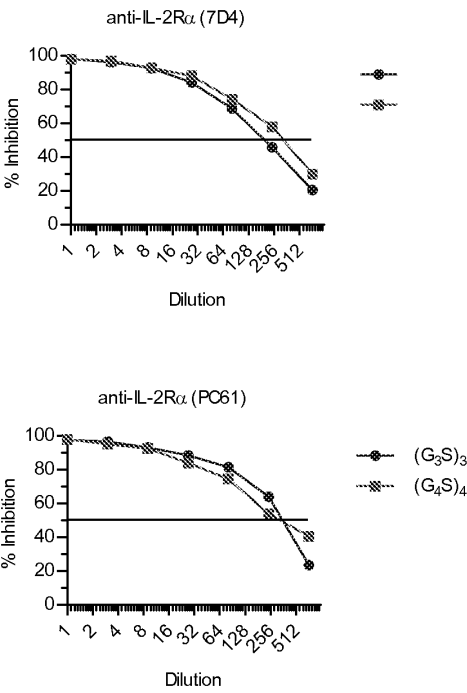


FIG. 4

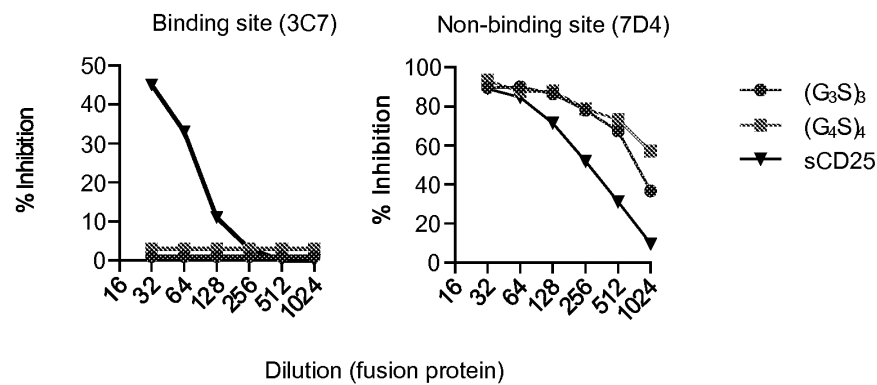


FIG. 5

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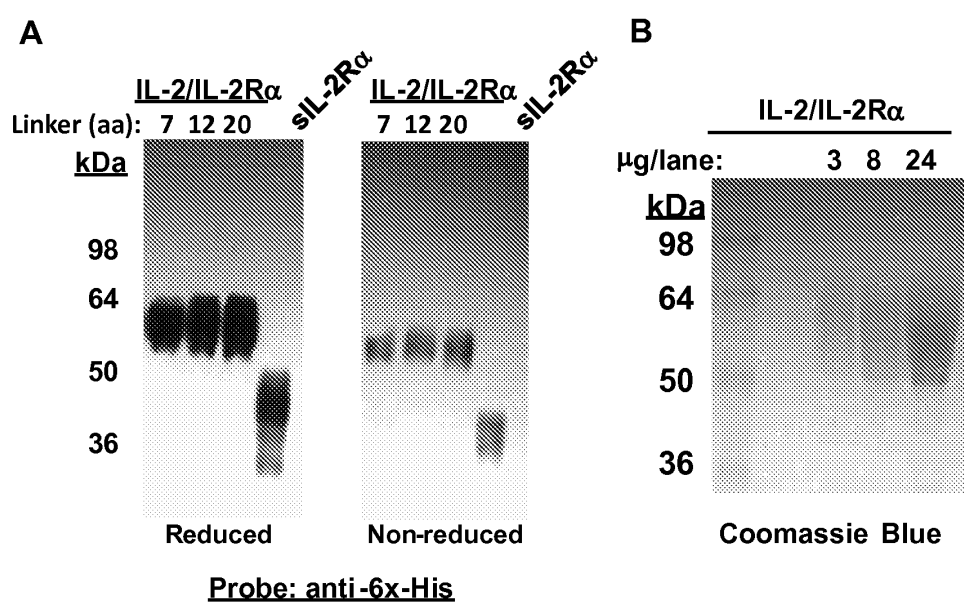


FIG. 6

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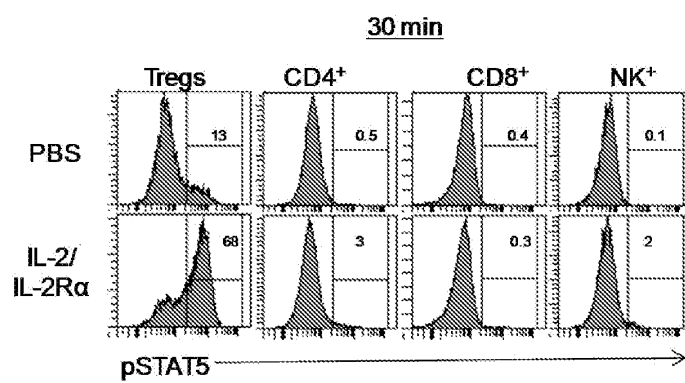


FIG. 7

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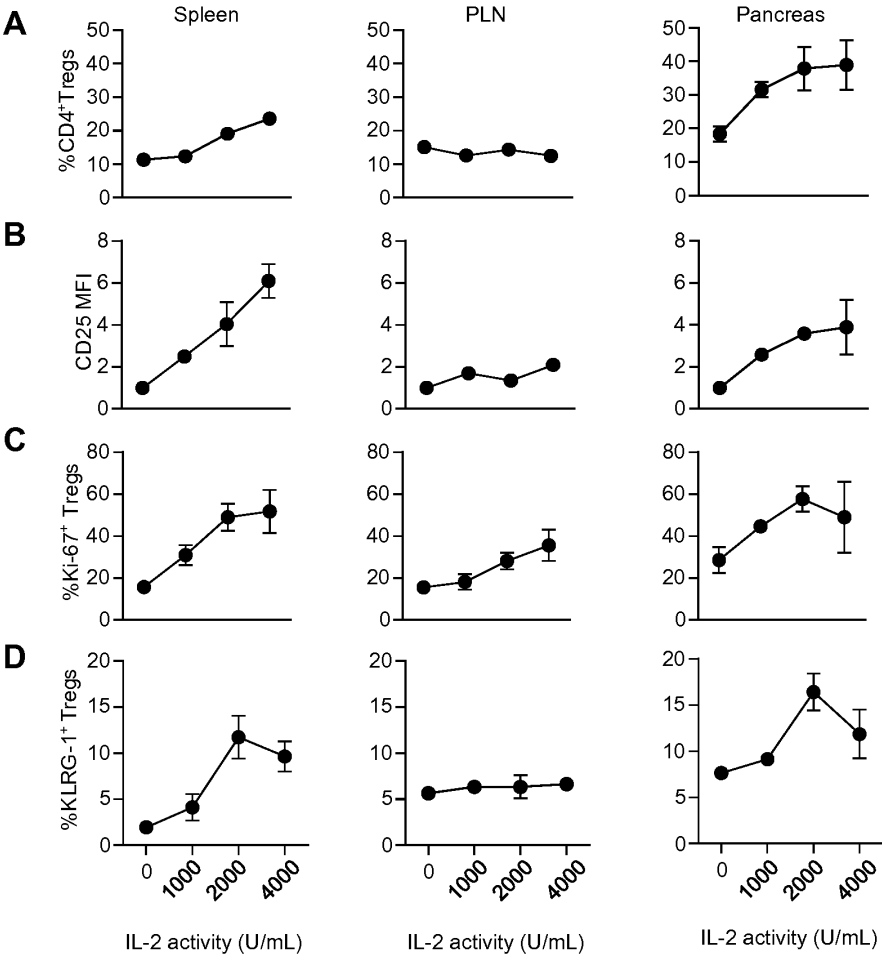


FIG. 8

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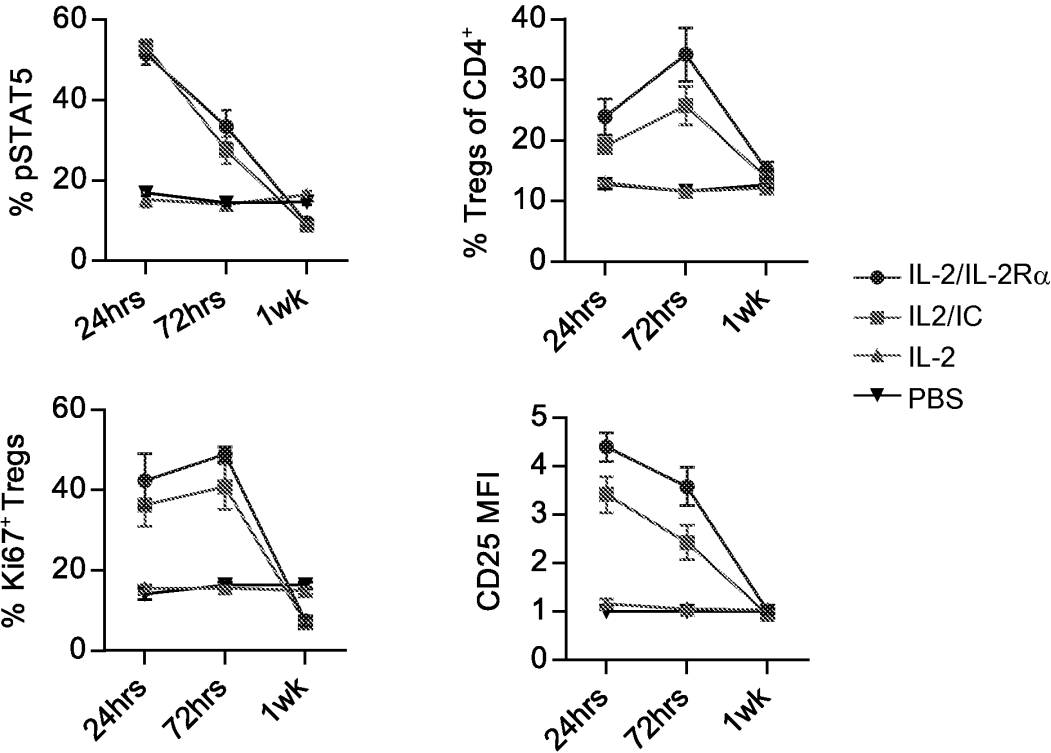


FIG. 9

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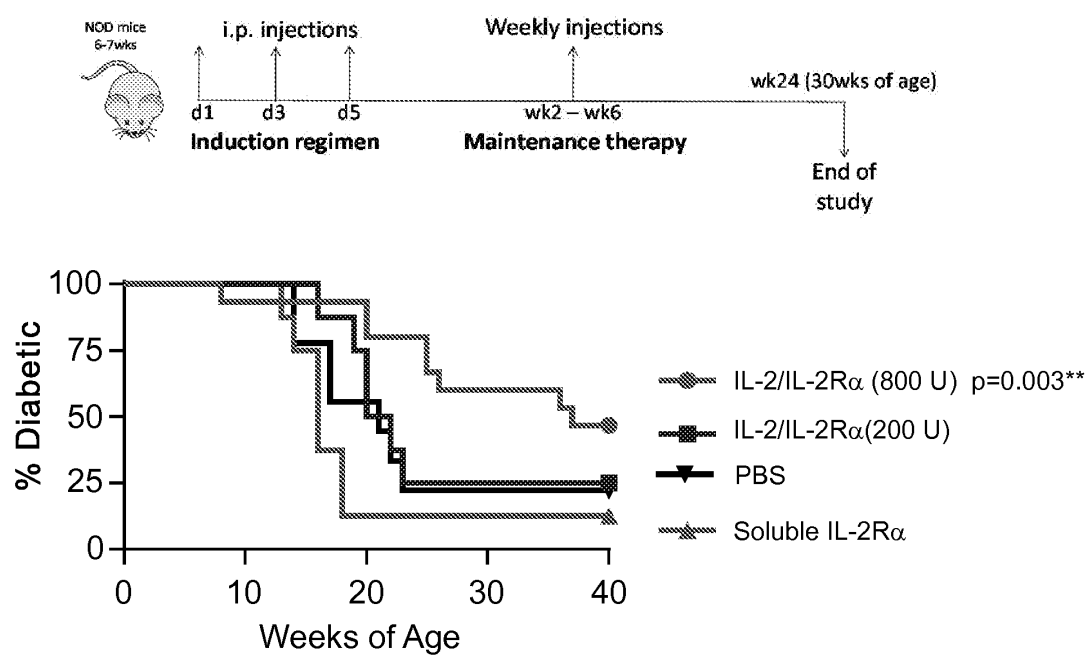


FIG. 10

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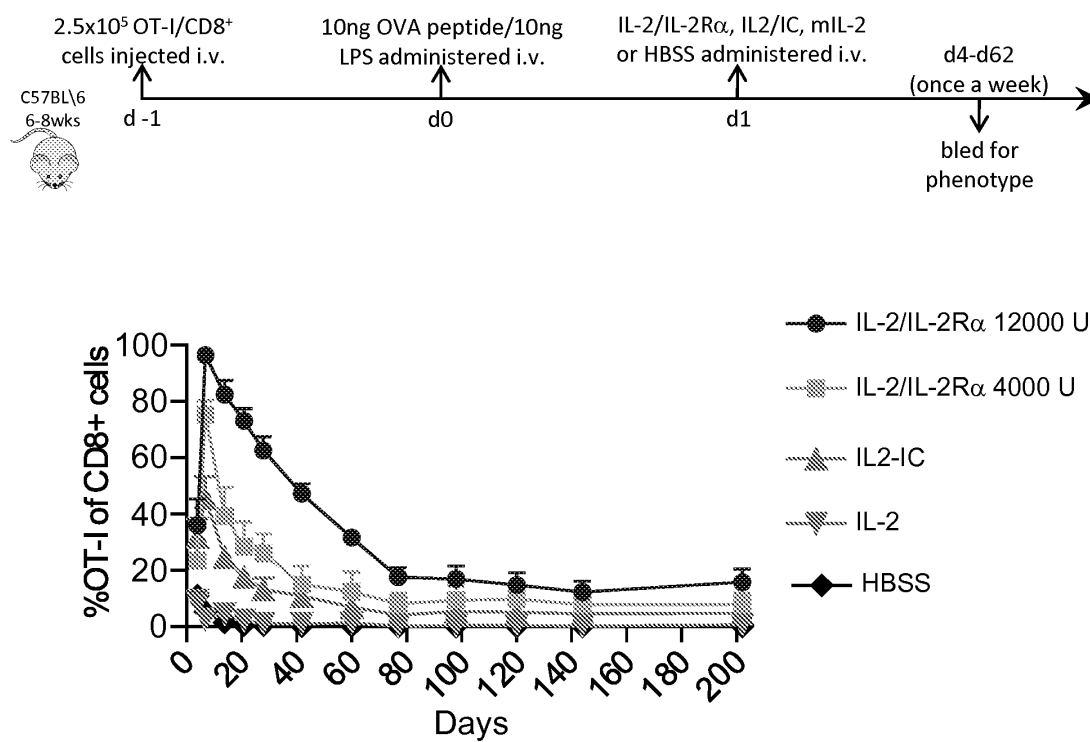


FIG. 11

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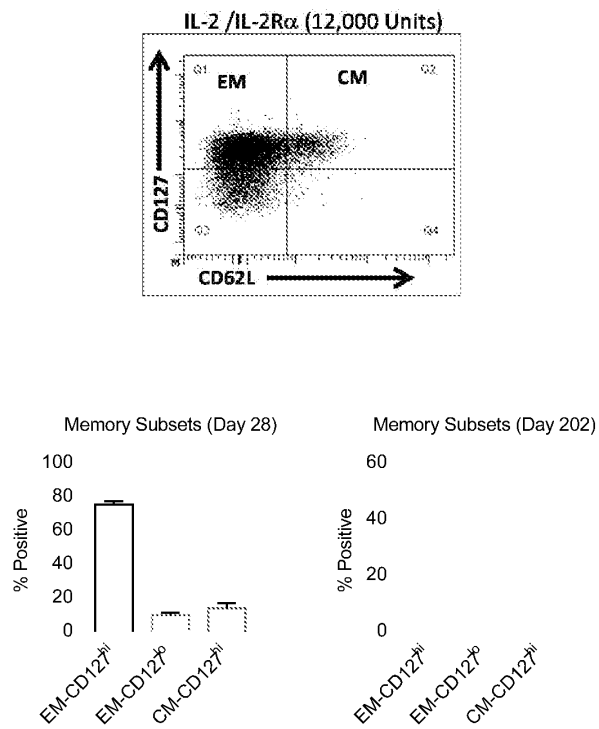


FIG. 12

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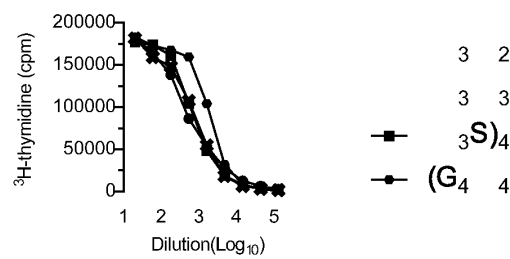
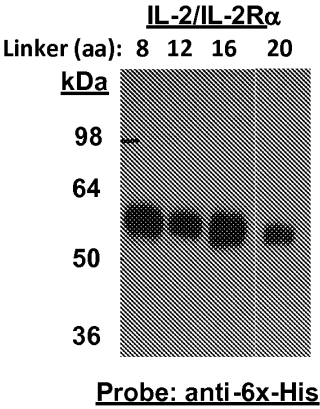


FIG. 13

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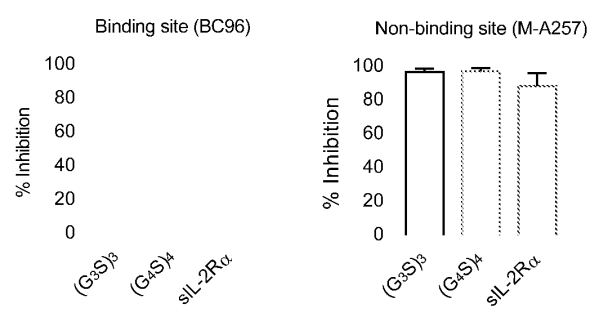


FIG. 14

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FIG. 15