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1  MEPAGPAPGR LGPLLCLLLA ASCAWSGVAG EEELQVIQPD KSVSVAAGES AILHCTVTSL
61  IPVGPIQWFR GAGPARELIY NQKEGHFPRV TTVSESTKRE NMDFSISISN ITPADAGTYY
121 CVKFRKGS PD TEFKSGAGTE LSVRAKPSAP VVSGPAARAT PQHTVSFTCE SHGFSPRDIT
181 LKWFKNGNEL SDFQTNVDPV GESVSYSIHS TAKVVLTR ED VHSQVICEVA HVTLQGDPLR
241 GTANLSETIR VPPTLEVTQQ PVRAENQVNV TCQVRKFYPQ RLQLTWLENG NVSRTETAST
301 VTENKDGTYN WMSWLLNVNVS AHRDDVKLTC QVEHDGQPAV SKSHDLKVSA HPKEQGSNTA
361 AENTGSNERN IYIVVG VVCT LLVALLMAAL YLVRI RQKKA QGSTSSTR LH EPEKNAREIT
421 QVQSLDTNDI TYADLNL PKG KKPAPQAAEP NNHTEYASIQ TSPQPASEDT LTYADLDMVH
481 LNRTPKQPAP KPEPSFSEYA SVQVPRK (SEQ ID NO: 2)

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[0074] The amino acid sequence of hSIRP α isoform 2 is provided herein as SEQ ID NO: 5.

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1  MEPAGPAPGR LGPLLCLLLA ASCAWSGVAG EEELQVIQPD KSVLVAAGET ATLRCTATSL
61  IPVGPIQWFR GAGPGRELIY NQKEGHFPRV TTVSDLTKRN NMDFSIRIGN ITPADAGTYY
121 CVKFRKGS PD DVEFKSGAGT ELSVRAKPSA PVVSGPAARA TPQHTVSFTC ESHGFSPRDI
181 TLKWFKNGNE LSDFQTNVDP VGESVSYSIH STAKVVLTR E DVHSQVICEV AHVT LQGDPL
241 RGTANLSETI RVPPTLEVTQ QPVRAENQVN VTCQVRKFYP QRLQLTWLEN GNVSRTETAS
301 TVTENKDGTY NWMSWLLNVN SAHRDDVKLT CQVEHDGQPA VSKSHDLKVS AHPKEQGSNT
361 AAENTGSNER NIYIVVG VVC TLLVALLMAA LYLVRIRQKK AQGSTSSTR L HEPEKNAREI
421 TQVQSLDTND ITYADLNL PK GKKPAPQAAE PNNHTEYASI QTSPQPASED TLTYADLDMV
481 HLNRTPKQPA PKPEPSFSEY ASVQVPRK (SEQ ID NO: 5)

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[0075] The amino acid sequence of human SIRP α (hSIRP α) isoform 4 is provided in SEQ ID NO: 18025.

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1  MEPAGPAPGR LGPLLCLLLA ASCAWSGVAG EEELQVIQPD KSVLVAAGET ATLRCTATSL
61  IPVGPIQWFR GAGPGRELIY NQKEGHFPRV TTVSDLTKRN NMDFSIRIGN ITPADAGTYY
121 CVKFRKGS PD VEFKSGAGTE LSVRAKPSAP VVSGPAARAT PQHTVSFTCE SHGFSPRDIT
181 LKWFKNGNEL SDFQTNVDPV GESVSYSIHS TAKVVLTR ED VHSQVICEVA HVTLQGDPLR
241 GTANLSETIR VPPTLEVTQQ PVRAENQVNV TCQVRKFYPQ RLQLTWLENG NVSRTETAST
301 VTENKDGTYN WMSWLLNVNVS AHRDDVKLTC QVEHDGQPAV SKSHDLKVSA HPKEQGSNTA
361 AENTGSNERN IYIVVG VVCT LLVALLMAAL YLVRI RQKKA QGSTSSTR LH EPEKNAREIT
421 QDTNDITYAD LNL PKGKKPA PQAAEPNNHT EYASIQ TSPQ PASEDTLTYA DLDMVHLNRT
481 PKQPAPKPEP SFSEYASVQV PRK (SEQ ID NO: 18025)

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[0076] In some embodiments, the SIRP antibodies bind to one or more variants or isoforms of a SIRP α of a single species. In some embodiments, the SIRP antibodies bind to one or more variants or isoforms of a SIRP α of more than one species. In some embodiments, the SIRP

PPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
HEALHNHYTQKSLSLGLGK (SEQ ID NO: 17)

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLG
TKTYTCNVDHKPSNTKVDKRVESKYGPPCPSCPAPEFEGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQ
FNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTL
PPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
HEALHNHYTQKSLSLGLGK (SEQ ID NO: 18)

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLG
TKTYTCNVDHKPSNTKVDKRVESKYGPPCPSCPAPEFEGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQ
FNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTL
PPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
HEALHNHYTQKSLSLGLGK (SEQ ID NO: 59)

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLG
TKTYTCNVDHKPSNTKVDKRVESKYGPPCPSCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQ
FNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTL
PPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
HEALHNHYTQKSLSLGLGK (SEQ ID NO: 60)

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLG
TKTYTCNVDHKPSNTKVDKRVESKYGPPCPSCPAPEALGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQ
FNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTL
PPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
HEALHNHYTQKSLSLGLGK (SEQ ID NO: 61)

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLG
TKTYTCNVDHKPSNTKVDKRVESKYGPPCPSCPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQ
FNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTL
PPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
HEALHNHYTQKSLSLGLGK (SEQ ID NO: 62)

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLG
TKTYTCNVDHKPSNTKVDKRVESKYGPPCPSCPAPEFAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQ
FNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTL
PPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
HEALHNHYTQKSLSLGLGK (SEQ ID NO: 63)

[0099] In some embodiments, the human IgG4 Fc domain sequence is SEQ ID NO: 2437,
wherein X₁ is S or P; AND X₂ is L or E.