embodiments, the SIRP antibodies also bind to one or more variants or isoforms of a non-human primate SIRPα, e.g. a cynomolgus monkey SIRPα.

[0087] In some embodiments, the SIRP antibodies also bind to a plurality of SIRPα variants found in a particular species, e.g. the SIRP antibodies bind to more than one of SIRPα human variants 1-13. In some embodiments the SIRP antibodies also bind to hSIRPα V1. In some embodiments, the SIRP antibodies also bind to hSIRPα V2. In some embodiments, the SIRP antibodies also bind to hSIRPα V1 and V2. In some embodiments, the SIRP antibodies also bind the extracellular domain of SIRPα, e.g. hSIRPα V1 (e.g. Met1-Arg370 of V1, Gly27-Arg370 of V1, or Glu31-Arg370 of V1), or e.g. hSIRPα V2 (Met1-Arg369).

[0088] In some embodiments, the SIRP antibodies of the disclosure bind a plurality of SIRPα isoforms. For example, the SIRP antibodies of the disclosure may bind to two or more SIRPα isoforms, or all SIRPα isoforms. In some embodiments, the SIRP antibodies bind to isoform 1, 2 and 4 of SIRPα.

[0089] In some embodiments, the SIRP antibodies also bind specifically to hSIRPα V1. In some embodiments, the SIRP antibodies also bind specifically to hSIRPα V2. In some embodiments, the SIRP antibodies also bind specifically to hSIRPα V1 and hSIRPα V2. In some embodiments, the SIRP antibodies also bind specifically to one or more variants of SIRPα, but show little or no binding to SIRPβ1.

[0090] Human SIRPβ1 (hSIRPβ1) has at least 3 isoforms. The amino acid sequence of hSIRPβ1 isoform 1 is provided in SEQ ID NO: 9.

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  1 MPVPASWPHL PSPFLLMTLL LGRLTGVAGE DELQVIQPEK SVSVAAGESA TLRCAMTSLI
 61 PVGPIMWFRG AGAGRELIYN QKEGHFPRVT TVSELTKRNN LDFSISISNI TPADAGTYYC
121 VKFRKGSPDD VEFKSGAGTE LSVRAKPSAP VVSGPAVRAT PEHTVSFTCE SHGFSPRDIT
181 LKWFKNGNEL SDFQTNVDPA GDSVSYSIHS TARVVLTRGD VHSQVICEIA HITLQGDPLR
241 GTANLSEAIR VPPTLEVTQQ PMRAENQANV TCQVSNFYPR GLQLTWLENG NVSRTETAST
301 LIENKDGTYN WMSWLLVNTC AHRDDVVLTC QVEHDGQQAV SKSYALEISA HQKEHGSDIT
361 HEAALAPTAP LLVALLLGPK LLLVVGVSAI YICWKQKA (SEQ ID NO: 9)
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[0091] In some embodiments, the SIRP antibodies also bind to one or more variants or isoforms of a SIRPβ1 of a single species. In some embodiments, the SIRP antibodies also bind to one or more variants or isoforms of a SIRPβ1 of more than one species. In some embodiments, the

SIRP antibodies also bind to one or more variants or isoforms of human SIRPβ1. In some embodiments, the SIRP antibodies also bind to one or more variants or isoforms of a non-human primate SIRPβ1, e.g. a cynomolgus monkey SIRPβ.

[0092] In some embodiments, the SIRP antibodies also bind to a plurality of SIRPβ1 variants or isoforms found in a particular species, e.g. the SIRP antibodies bind to more than one of SIRPβ1 human isoforms 1-3. In some embodiments, the SIRP antibodies also bind the extracellular domain of SIRPβ1 (e.g. amino acids 1-371 of SEQ ID NO: 9). In some embodiments, the SIRP antibodies also bind specifically to one or more variants or isoforms of SIRPα, in addition to binding to SIRPγ and SIRPβ1.

[0093] Human SIRPγ has at least 4 isoforms. The amino acid of hSIRPγ isoform 1 is provided as SEQ ID NO: 10.

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  1 MPVPASWPHP PGPFLLLTLL LGLTEVAGEE ELQMIQPEKL LLVTVGKTAT LHCTVTSLLP
 61 VGPVLWFRGV GPGRELIYNQ KEGHFPRVTT VSDLTKRNNM DFSIRISSIT PADVGTYYCV
121 KFRKGSPENV EFKSGPGTEM ALGAKPSAPV VLGPAARTTP EHTVSFTCES HGFSPRDITL
181 KWFKNGNELS DFQTNVDPTG QSVAYSIRST ARVVLDPWDV RSQVICEVAH VTLQGDPLRG
241 TANLSEAIRV PPTLEVTQQP MRVGNQVNVT CQVRKFYPQS LQLTWSENGN VCQRETASTL
301 TENKDGTYNW TSWFLVNISD QRDDVVLTCQ VKHDGQLAVS KRLALEVTVH QKDQSSDATP
361 GPASSLTALL LIAVLLGPIY VPWKQKT (SEQ ID NO: 10)
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[0094] In some embodiments, the SIRP antibodies bind to one or more variants or isoforms of a SIRPγ of a single species. In some embodiments, the SIRP antibodies bind to one or more variants or isoforms of a SIRPγ of more than one species. In some embodiments, the SIRP antibodies bind to one or more variants or isoforms of human SIRPγ. In some embodiments, the SIRP antibodies bind to one or more variants or isoforms of a non-human primate SIRPγ, e.g. a cynomolgus monkey SIRPγ.

[0095] In some embodiments, the SIRP antibodies bind to a plurality of SIRPγ variants or isoforms found in a particular species, e.g. the SIRP antibodies bind to more than one of SIRPγ human isoforms 1-3. In some embodiments, the SIRP antibodies bind the extracellular domain of SIRPγ (e.g. amino acids 1-360 of SEQ ID NO: 10).

[0096] The skilled artisan will recognize that antibodies that exhibit little or no binding to a target antigen can be described as having a low affinity, and a high equilibrium dissociation