

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SIRP beta 1 and human SIRP gamma in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 308906
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human SIRP beta 1 Gly26-Ala369 (Arg53His and Ala363Pro) Accession # O00241.4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human SIRP beta 1 and Recombinant Human SIRP gamma
Flow Cytometry	2.5 µg/10 ⁶ cells	Human whole blood
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SIRPβ1 is a type I transmembrane protein belonging to the SIRP family within the Ig superfamily. Members of this family are characterized by an extracellular region containing a V-set Ig domain containing a J-like sequence and two C1-set Ig domains. Unlike SIRPα that has cytoplasmic ITIM domains, SIRPβ1 possesses positively charged residues that allow association with ITAM motif containing adaptor molecules. SIRPβ1 is expressed on cells of monocyte, macrophage or dendritic lineages.