Human SIRPγ/CD172g Antibody

Monoclonal Mouse IgG_1 Clone # 595337

Catalog Number: MAB4486

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SIRPγ/CD172g in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 20% cross-reactivity with recombinant human (rh) SIRPα and rhSIRPβ 1 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 595337
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human SIRPγ/CD172g Val64-Ser364 Accession # Q9P1W8
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.

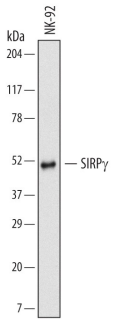
APPLICATIONS

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	2 µg/mL	See Below

DATA

Western Blot



Detection of Human SIRPγ/CD172g by Western Blot. Western blot shows lysates of NK-92 human natural killer lymphoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human SIRPγ/CD172g Monoclonal Antibody (Catalog # MAB4486) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for SIRPγ/CD172g at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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.** ● 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

Signal-regulatory protein gamma/beta 2 (SIRP gamma/beta 2) is a 45-47 kDa type 1 transmembrane glycoprotein and member of the immunoglobulin superfamily and SIRP family of proteins. Human SIRP gamma/beta 2 is synthesized as a 387 amino acid (aa) precursor that contains a 28 aa signal sequence, a 332 aa extracellular domain (ECD), a 23 aa transmembrane segment, and a 4 aa cytoplasmic tail. The ECD contains two Ig-like C1-type domains, one Ig-like V-type domain, and four potential sites for N-linked glycosylation. There are four named isoforms for human SIRP gamma/beta 2. Human SIRP gamma/beta 2 has no orthologs, but it is 75% aa identical to SIRPβ. It is expressed in the liver and at very low levels in brain, heart, lung, pancreas, kidney, placenta, and skeletal muscle.
SIRP gamma/beta 2 is also expressed on $CD4^+$ T-cells, $CD8^+$ T-cells, and activated NK cells.

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