

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SIRPy/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 SIRPy/CD172g Val64-Ser364 Accession # Q9P1W8
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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