

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                              |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 595337                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human SIRPy/CD172g<br>Val64-Ser364<br>Accession # Q9P1W8                                                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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<sup>+</sup> T-cells, CD8<sup>+</sup> T-cells, and activated NK cells.

## PRODUCT SPECIFIC NOTICES

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