

Human SIRPα/CD172a Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 602411

Catalog Number: FAB4546S

| Species Reactivity | Human | | |
|--------------------|---|--|--|
| Specificity | Detects human SIRPα/CD172a in direct ELISAs and Western blots. In direct ELISAs, 50-100% cross-reactivity with recombinant human (rh) SIRPβ1 and no cross-reactivity with rhSIRPβ2 is observed. In Western blots, approximately 10% cross-reactivity with rhSIRPβ1 and no cross-reactivity with rhSIRPβ2 is observed. | | |
| Source | Monoclonal Mouse IgG _{2B} Clone # 602411 | | |
| Purification | Protein A or G purified from hybridoma culture supernatant | | |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant human SIRPα/CD172a Gly27-Asn370 (predicted) Accession # P78324 | | |
| Conjugate | Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm | | |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. | | |
| | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shed (SDS) for additional information and handling instructions. | | |

| 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 | | |
| Flow Cytometry | 0.25-1 μg/10 ⁶ cells | U937 human histiocytic lymphoma cell line | | |

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

SIRPα (Signal regulatory protein alpha; also SHPS1 and BIT) is a variably glycosylated 90-120 kDa member of the SIRP family of proteins. It is widely expressed, being found on neurons, microglia/macrophages, endothelium, and fibroblasts. SIRPα has a variety of functions, including presynsptic organization, inhibition of integrin action, and induction of myogenesis. It binds to CD47 and likely other ligands. Mature human SIRPα is a 477 amino acid (aa) type I transmembrane glycoprotein. It contains an extracellular region (aa 27-372) that shows one V-type Ig-like (aa 32-137) and two C2-type Ig-like domains (aa 147-347). Its cytoplasmic domain possesses two ITIMs which interact with protein tyrosine phosphatases. There is one alternative start site at Met102 plus a four aa insertion after GIn421. Over aa 27-370, human SIRPa shares 61% aa identity with mouse SIRPa.

PRODUCT SPECIFIC NOTICES

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