

Product datasheet

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ARG22531 anti-CD172a / SIRP alpha antibody [CC149]

Package: 50 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [CC149] recognizes CD172a / SIRP alpha.

This antibody recognizes bovine CD172a, also known as MyD-1 antigen and SIRPA. CD172a is a ~55 kDa single pass type 1 membrane protein belonging to the family of signal regulatory proteins (SIRP). CD172a has been identified as the receptor for CD47.Bovine CD172a is strongly expressed by splenic macrophages, monocytes and a subset of afferent lymph veiled cells (ALVC) and by dendritic cells in the

skin.

Tested Reactivity Bov

Tested Application FACS

Host Mouse

Clonality Monoclonal

Clone CC149
Isotype IgG2b

Target Name CD172a / SIRP alpha

Species Bovine

Conjugation Un-conjugated

Alternate Names CD172A; p84; SHPS1; SHPS-1; CD172 antigen-like family member A; Sirp-alpha-1; BIT;

MYD-1; MFR; Bit; PTPNS1; CD antigen CD172a; Inhibitory receptor SHPS-1; SIRP; MyD-1 antigen; Sirp-alpha-2; Tyrosine-protein phosphatase non-receptor type substrate 1; Signal-regulatory protein alpha-1; Signal-regulatory protein alpha-2; Signal-regulatory protein alpha-3; Macrophage fusion receptor; Brain Ig-like molecule with tyrosine-based activation motifs; P84; SHP substrate 1

Application Instructions

Application table	Application	Dilution
	FACS	Neat
Application Note	FACS: Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.	

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

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and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

SIRPA

Gene Full Name

signal-regulatory protein alpha

Background

The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternatively spliced transcript variants have been determined for this gene. [provided by RefSeq, Jul 2008]

Function

Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular signaling during synaptogenesis and in synaptic function (By similarity). Involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. Mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. [UniProt]

Research Area

Cell Biology and Cellular Response antibody; Neuroscience antibody; Cardiomyocyte Cell Surface

Marker antibody

Calculated Mw

55 kDa

PTM N-glycosylated.

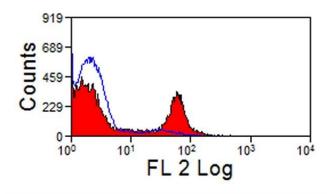
Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and

PDGF. Dephosphorylated by PTPN11. [UniProt]

Cellular Localization

Membrane; Single-pass type I membrane protein [UniProt]

Images



ARG22531 anti-CD172a / SIRP alpha antibody [CC149] FACS image

Flow Cytometry: Bovine peripheral blood lymphocytes stained with ARG22531 anti-CD172a / SIRP alpha antibody [CC149] followed by Goat anti Mouse IgG (FITC).