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Product Information

MemDX™ Membrane Protein Human SIRPA (Signal regulatory protein alpha) Full Length

Cat. No.: **MPC2478K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human SIRPA membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
SIRPA

Protein Length
Full length

Protein Class
Receptor

TMD
1

Sequence
MEPAGPAPGRLGPLLCLLLAASCAWSGVAGEEELQVIQPDKSVLVAAGET
ATLRCTATSLIPVGPIQWFRGAGPGRELIYNQKEGHFPRVTTVSDLTKRN
NMDFSIRIGNITPADAGTYYCVKFRKGSPDDVEFKSGAGTELSVRAKPSA
PVVSGPAARATPQHTVSFTCESHGFSPRDITLKWFKNGNELSDFQTNVDP
VGESVSYSIHSTAKVVLTREDVHSQVICEVAHVTLQGDPLRGTANLSETI
RVPPTLEVTQQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTETAS
TVTENKDGTYNWMSWLLVNVSAHRDDVKLTCQVEHDGQPAVSKSHDLKVS
AHPKEQGSNTAAENTGSNERNIYIVVGVVCTLLVALLMAALYLVRIRQKK
AQGSTSSTRLHEPEKNAREITQDTNDITYADLNLPKGKKPAPQAAEPNNH
TEYASIQTSPQPASEDTLTYADLDMVHLNRTPKQPAPKPEPSFSEYASVQ
VPRK

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

SIRPA

Full Name

Signal regulatory protein alpha

Introduction

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.

Alternative Names

SIRPA; BIT; MFR; P84; SIRP; MYD-1; SHPS1; CD172A; PTPNS1; tyrosine-protein phosphatase non-receptor type substrate 1; CD172 antigen-like family member A; brain-immunoglobulin-like molecule with tyrosine-based activation motifs; inhibitory receptor SHPS-1; macrophage fusion receptor; myd-1 antigen; tyrosine phosphatase SHP substrate 1; Signal regulatory protein alpha

Gene ID

140885

UniProt ID

P78324