

Product Information

MemDX™ Membrane Protein Human SH2D1A (SH2 domain containing 1A) for Antibody

Discovery

Cat. No.: **MP1129X**

This product is for research use only and is not intended for diagnostic use.

This product is a 39.82 kDa Human SH2D1A membrane protein expressed in *In vitro* wheat germ expression system. 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

SH2D1A

Protein Length

Full-length

Molecular Weight

39.82 kDa

Sequence

MDAVAVYHGKISRETGEKLLLATGLDGSYLLRDSSEVPGVYCLCVLYHGYIYTYRVSQTETGWSAETAPGVHKRYFRKIKNLISAF

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

In vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

SH2D1A

Full Name

SH2 domain containing 1A

Introduction

This gene encodes a protein that plays a major role in the bidirectional stimulation of T and B cells. This protein contains an SH2 domain and a short tail. It associates with the signaling lymphocyte-activation molecule, thereby acting as an inhibitor of this transmembrane protein by blocking the recruitment of the SH2-domain-containing signal-transduction molecule SHP-2 to its docking site. This protein can also bind to other related surface molecules that are expressed on activated T, B and NK cells, thereby modifying signal transduction pathways in these cells. Mutations in this gene cause lymphoproliferative syndrome X-linked type 1 or Duncan disease, a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus, with symptoms including severe mononucleosis and malignant lymphoma. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

LYP; SAP; XLP; DSHP; EBVS; IMD5; XLPD; MTCP1; XLPD1; SAP/SH2D1A; SH2 domain-containing protein 1A; Duncan disease SH2-protein; SLAM associated protein/SH2 domain protein 1A; SLAM-associated protein; T cell signal transduction molecule SAP; signaling lymphocyte activation molecule-associated protein; signaling lymphocytic activation molecule-associated protein

Gene ID

[4068](#)

UniProt ID

[O60880](#)