

SH2D1A FISH Probe

Catalog # FA0470

Size 200 uL

Specification

Product Description	Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization Technique. (Technology).
Origin	Human
Source	Genomic DNA
Reactivity	Human
Notice	We strongly recommend the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Regulation Status	For research use only (RUO)
Supplied Product	DAPI Counterstain (1500 ng/mL) 250 uL
Storage Instruction	Store at 4°C in the dark.

Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

Gene Info — SH2D1A

Entrez GeneID	4068
Gene Name	SH2D1A
Gene Alias	DSHP, EBVS, FLJ18687, FLJ92177, IMD5, LYP, MTCP1, SAP, XLP, XLPD
Gene Description	SH2 domain protein 1A

Omim ID [300490 308240](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

Duncan's disease|OTTHUMP00000023976|SLAM-associated protein|T cell signal transduction molecule SAP|signaling lymphocyte activation molecule-associated protein

Pathway

- [Natural killer cell mediated cytotoxicity](#)

Disease

- [Common Variable Immunodeficiency](#)
- [Epstein-Barr Virus Infections](#)
- [Genetic Predisposition to Disease](#)
- [Immunologic Deficiency Syndromes](#)
- [Infectious Mononucleosis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Severe Combined Immunodeficiency](#)