

## SH2D1A Antibody FITC Conjugated

Catalog No: #C08285F

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## Description

Product Name	SH2D1A Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide derived from human SH2D1A SAP
Conjugates	FITC
Target Name	SH2D1A
Other Names	SH2 domain protein 1A; DSHP; Duncan disease SH2 protein; SAP; Signaling lymphocyte activation molecule associated protein; SLAM associated protein; T cell signal transduction molecule SAP; SH21A_HUMAN.
Accession No.	NCBI Gene ID4068
Uniprot	O60880
GeneID	4068;
Excitation Emission	494nm 518nm
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

## Application Details

IF=1:50-200

## Background

SH2D1A, also SH2 domain protein 1A, SAP and CD150 SLAM (signaling lymphocyte activation molecule)-associated protein, influences signaling pathways involving SLAM molecules at the interface between T and B cells. SH2D1A modulates SLAM by blocking the recruitment of tyrosine phosphatase SHP2 to the phosphorylated cytoplasmic domain of SLAM. SLAM activation mediates expansion of activated T cells during immune responses, induces production of interferon- $\gamma$  and changes the functional profile of subsets of T cells. SH2D1A is a hydrophilic, 128 amino acid protein that is 96% homologous to the mouse protein in both SH2 and tail domains. SH2D1A is present in all major subsets of T cells, including CD4+, CD45RO+, CD45RA+ and CD8+, but not in B cells. SH2D1A can interact via an SH2 domain with a motif (TIYXXV) present in the cytoplasmic tail of cell-surface receptors SLAM (CD150), CD84, CD229 (LY9) and CD244 (2B4).

Note: This product is for in vitro research use only