Revision 1

Store at -20C

#2778

SH2D1A Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	14	Rabbit	#O60880	4068

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SH2D1A Antibody detects endogenous levels of total SH2D1A protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around Gly112 of human SH2D1A. Antibodies are purified by protein A and peptide affinity chromatography.

Background

SH2D1A and SH2D1B are small, adaptor proteins with a single SH2-domain that play important signal transduction roles mediated by the signaling lymphocytic activation molecule (SLAM) family receptors (1). SH2D1A (also called SAP or SLAM-associated protein) is frequently mutated in patients with X-linked lymphoproliferative disease (Duncan's disease), which is characterized by extreme susceptibility to Epstein-Barr virus; approximately 50 different SH2D1A mutations have been reported to date (2-4). The single SH2D1B gene in humans (also called EAT-2 or Ewing's sarcoma's/FLI1-activated transcript 2) is present as a pair of duplicated EAT-2A and EAT-2B genes with identical genomic organization in mouse and rat (5,6).

Background References

1. Latour, S. and Veillette, A. (2004) *Semin. Immunol.* 16, 409-419.
2. Nichols, K.E. et al. (2005) *Immunol. Rev.* 203, 180-199.
3. Engel, P. et al. (2003) *Nat. Rev. Immunol.* 3, 813-821.
4. Sumegi, J. et al. (2002) *Leuk. Lymphoma* 43, 1189-1201.
5. Roncagalli, R. et al. (2005) *Nat. Immunol.* 6, 1002-1010.
6. Calpe, S. et al. (2006) *Immunogenetics* 58, 15-25.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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Limited Uses

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