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SH2D1A (XLP 1D12) Rat mAb

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

Applications: W, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 14	Source/Isotype: Rat IgG2a	UniProt ID: #O60880	Entrez-Gene Id: 4068
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Product Usage Information

Application

Western Blotting
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #71724.

Specificity/Sensitivity

SH2D1A (XLP 1D12) Rat mAb detects endogenous levels of total SH2D1A protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant full-length SH2D1A protein.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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