

#2805 Store at -20C

## SH2D1A (XLP 1D12) Rat mAb



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

### 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.

### 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

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

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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