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## SH2D1A (D10G8) Rabbit mAb

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

|                           |                           |                                   |                        |                                      |                               |                                |
|---------------------------|---------------------------|-----------------------------------|------------------------|--------------------------------------|-------------------------------|--------------------------------|
| <b>Applications:</b><br>W | <b>Reactivity:</b><br>H M | <b>Sensitivity:</b><br>Endogenous | <b>MW (kDa):</b><br>14 | <b>Source/Isotype:</b><br>Rabbit IgG | <b>UniProt ID:</b><br>#O60880 | <b>Entrez-Gene Id:</b><br>4068 |
|---------------------------|---------------------------|-----------------------------------|------------------------|--------------------------------------|-------------------------------|--------------------------------|

### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### 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 (D10G8) Rabbit mAb detects endogenous levels of total SH2D1A protein.

### Species predicted to react based on 100% sequence homology

Rat

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala82 of human 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse

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