

STAM2 Antibody

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

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit	UniProt ID: #O75886	Entrez-Gene Id: 10254
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
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

STAM2 Antibody recognizes endogenous levels of total STAM2 protein. This antibody does not cross-react with STAM1.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human STAM2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Signal transducing adaptor molecule 2 (STAM2) is a ubiquitously expressed STAM family adaptor protein and an integral component of the ESCRT-0 complex. Similar to STAM1, STAM2 possesses a single SH3 domain and an immunoreceptor tyrosine-based activation motif (ITAM). Following activation of multiple growth factor and cytokine cell surface receptors, the STAM2 protein undergoes tyrosine phosphorylation and potentiates mitogenic signals driven by these receptors (1,2). Research studies demonstrate that STAM2 is localized to complexes containing Eps15, Hrs, and STAM1 proteins on early endosome membranes. A tandem, amino-terminal VHS (Vps27/Hrs/STAM) domain and UIM (ubiquitin-interacting) motif within STAM2 facilitate STAM2 interaction with ubiquitinated cargo proteins, suggesting that this adaptor participates in the endosomal sorting of ubiquitinated proteins targeted for lysosomal degradation (3-6). Gene targeting studies have revealed an indispensable role for STAM2 in T-cell development (7).

Background References

1. Endo, K. et al. (2000) *FEBS Lett* 477, 55-61.
2. Pandey, A. et al. (2000) *J Biol Chem* 275, 38633-9.
3. Mizuno, E. et al. (2003) *Mol Biol Cell* 14, 3675-89.
4. Bache, K.G. et al. (2003) *J Biol Chem* 278, 12513-21.
5. Takata, H. et al. (2000) *Genes Cells* 5, 57-69.
6. Mizuno, E. et al. (2004) *J Biochem* 135, 385-96.
7. Yamada, M. et al. (2002) *Mol Cell Biol* 22, 8648-58.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **Mk:** Monkey

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