

STAM1 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	70	Rabbit	#Q92783	8027

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

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

Species predicted to react based on 100% sequence homology

Dog, Pig, Horse

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp286 of human STAM1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Signal Transducing Adaptor Molecule 1 (STAM1) is a ubiquitously expressed adaptor protein containing an SH3 domain and an ITAM motif. Initial research studies demonstrated that STAM1 undergoes tyrosine phosphorylation following treatment with numerous cytokines and growth factors (1). Subsequent research studies identified STAM1 as a component of the ESCRT-0 complex, which mediates the endocytic sorting of ubiquitinated membrane proteins to the lysosomal compartment for degradation (2). STAM1 harbors a tandemly-oriented VHS (Vps27/Hrs/STAM) domain and UIM (ubiquitin-interacting motif) that facilitates STAM1 binding to ubiquitinated cargo proteins within the endosomal compartment (3,4). Gene targeting studies have revealed that STAM1 and STAM2 cooperate to promote thymic T-cell development and survival (5).

Background References

1. Takeshita, T. et al. (1996) *Biochem Biophys Res Commun* 225, 1035-9.
2. Bache, K.G. et al. (2003) *J Biol Chem* 278, 12513-21.
3. Mizuno, E. et al. (2003) *Mol Biol Cell* 14, 3675-89.
4. Ren, X. and Hurley, J.H. (2010) *EMBO J* 29, 1045-54.
5. 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 **M:** Mouse **R:** Rat **Mk:** Monkey

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