
Anti- STAM1

Cat #: HM1351
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

STAM is a signal transducing adaptor molecule, that contains a Src homology 3 (SH3) domain and immunoreceptor tyrosine-based activation motif (ITAM). It is rapidly tyrosine-phosphorylated in response to cytokine stimulation. STAM1 associates with JAK3 and JAK2 kinases via its ITAM region, and is phosphorylated by the JAK kinases upon cytokine stimulation, which suggests the function of this protein is as an adaptor molecule involved in the downstream signaling of cytokine receptors. HGS/HRS (hepatocyte growth factor-regulated tyrosine kinase substrate) has been found to bind and counteract the function of this protein.

SPECIFICITY

This antibody specifically reacts with STAM1 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular weight of STAM1: 65 kDa

Western blotting positive controls: HeLa cell lysate.

IMMUNOGEN

A synthetic peptide derived from N-terminus of human STAM1 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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2. Takeshita, T., Arita, T., Higuchi, M., Asao, H., Endo, K., Kuroda, H., Tanaka, T., Murata, K., Ishii, N., and Sugamura, K. 1997. STAM, signal transducing adaptor molecule, is associated with Janus kinases and involved in signaling for cell growth and *c-myc* induction. *Immunity* 6: 449-457.
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4. Blackstone, C., Roberts, R.G., Seeburg, D.P. and Sheng, M. (2003) Interaction of the deafness-dystonia protein DDP/TIMM8a with the signal transduction adaptor molecule STAM1. *Biochem. Biophys. Res. Commun.* 305, 345-352.

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