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Goat Anti-STAM2 Antibody

Peptide-affinity purified goat antibody

Catalog # AF2038a

Specification

Goat Anti-STAM2 Antibody - Product Information

Application	**WB**
Primary Accession	O75886
Other Accession	NP_005834, 10254, 56324 (mouse)
Reactivity	**Human**
Predicted	**Mouse, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**58164**

Goat Anti-STAM2 Antibody - Additional Information

Gene ID 10254

Other Names
Signal transducing adapter molecule 2, STAM-2, Hrs-binding protein, STAM2, HBP

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-STAM2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-STAM2 Antibody - Protein Information

Name STAM2

Synonyms HBP

AF2038a (1 µg/ml) staining of Human Spleen lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-STAM2 Antibody - Background

The protein encoded by this gene is closely related to STAM, an adaptor protein involved in the downstream signaling of cytokine receptors, both of which contain a SH3 domain and the immunoreceptor tyrosine-based activation motif (ITAM). Similar to STAM, this protein acts downstream of JAK kinases, and is phosphorylated in response to cytokine stimulation. This protein and STAM thus are thought to exhibit compensatory effects on the signaling pathway downstream of JAK kinases upon cytokine stimulation.

Goat Anti-STAM2 Antibody - References

PTP1B targets the endosomal sorting machinery: dephosphorylation of regulatory sites on the endosomal sorting complex required for transport component STAM2. Stuible M, et al. J Biol Chem, 2010 Jul 30. PMID 20504764.
An empirical framework for binary interactome

Function
Involved in intracellular signal transduction mediated by cytokines and growth factors. Upon IL-2 and GM-CSL stimulation, it plays a role in signaling leading to DNA synthesis and MYC induction. May also play a role in T-cell development. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with HGS (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes (By similarity).

Cellular Location
Cytoplasm. Early endosome membrane; Peripheral membrane protein; Cytoplasmic side

Tissue Location
Ubiquitously expressed.

mapping. Venkatesan K, et al. Nat Methods, 2009 Jan. PMID 19060904.
STAM adaptor proteins interact with COPII complexes and function in ER-to-Golgi trafficking. Rismanchi N, et al. Traffic, 2009 Feb. PMID 19054391.
E3-independent monoubiquitination of ubiquitin-binding proteins. Hoeller D, et al. Mol Cell, 2007 Jun 22. PMID 17588522.
Rin1 interacts with signal-transducing adaptor molecule (STAM) and mediates epidermal growth factor receptor trafficking and degradation. Kong C, et al. J Biol Chem, 2007 May 18. PMID 17403676.

Goat Anti-STAM2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture