10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

STAM Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2180a

Specification

STAM Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	Q92783

STAM Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8027

Other Names
Signal transducing adapter molecule 1, STAM-1, STAM, STAM1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2180a was selected from the N-term region of human STAM . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

STAM Antibody (N-term) Blocking Peptide - Protein Information

Name STAM

Synonyms STAM1

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 a sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes.

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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Tissue Location
Ubiquitously expressed.

STAM Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

STAM Antibody (N-term) Blocking Peptide - Images

STAM Antibody (N-term) Blocking Peptide - Background

Stimulation of cells with cytokines initiates a signal transduction cascade involving cytokine receptors, Janus kinases (JAKs) and signal transducers and activators of transcription (STATs). STAM for 'signal-transducing adaptor molecule, induced after stimulation of cells with cytokine IL2, is a component of signal transduction downstream of JAK3.1 Human STAM cDNA cloned from a T-cell cDNA library encodes a 540-amino acid protein precipitated by anti-phosphotyrosine. Northern blot analysis indicates that STAM is expressed as a 2.9-kb message in a wide variety of tissue and cell types. The STAM sequence contains a Src-homology 3 (SH3) domain and an immunoreceptor tyrosine-based activation motif (ITAM). It has been suggested that STAM acts as an adaptor molecule in signal transduction pathways from cytokine receptors.