

Product datasheet

Anti-STAM2 (phospho Y192) antibody ab63569

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Overview

Product name	Anti-STAM2 (phospho Y192) antibody
Description	Rabbit polyclonal to STAM2 (phospho Y192)
Host species	Rabbit
Specificity	ab63569 detects endogenous levels of STAM2 only when phosphorylated at tyrosine 192.
Tested applications	Suitable for: IHC-P, ELISA, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthesized phosphopeptide derived from human STAM2 around the phosphorylation site of tyrosine 192(S-L-Y ^P -P-S).
Positive control	NIH/3T3 cytoplasmic lysate IHC-P: Human lung FFPE tissue sections.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

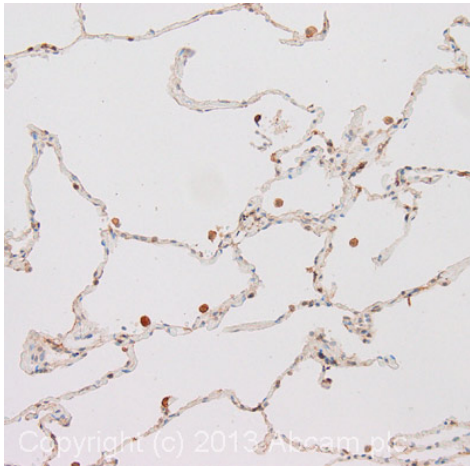
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab63569 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ELISA		1/5000.
WB		1/500 - 1/1000. Detects a band of approximately 58 kDa (predicted molecular weight: 58 kDa).

Target

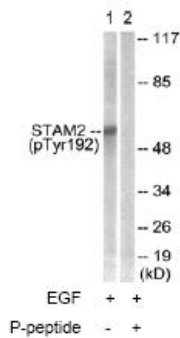
Function	Involved in intracellular signal transduction mediated by cytokines and growth factors. Upon IL-2 and GM-CSF stimulation, it plays a role in signaling leading to DNA synthesis and MYC induction. May also play a role in T-cell development. Involved in down-regulation of receptor tyrosine kinase 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.
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Belongs to the STAM family. Contains 1 ITAM domain. Contains 1 SH3 domain. Contains 1 UIM (ubiquitin-interacting motif) repeat. Contains 1 VHS domain.
Domain	The VHS and UIM domains mediate the interaction with ubiquitinated proteins. The SH3 domain mediates the interaction with USP8. Contains one Pro-Xaa-Val-Xaa-Leu (PxVxL) motif, which is required for interaction with chromoshadow domains. This motif requires additional residues -7, -6, +4 and +5 of the central Val which contact the chromoshadow domain.
Post-translational modifications	Phosphorylated in response to IL-2, GM-CSF, EGF and PDGF.
Cellular localization	Cytoplasm. Early endosome membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAM2 (phospho Y192) antibody (ab63569)

IHC image of STAM2 (phospho Y192) staining in human lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab63569, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-STAM2 (phospho Y192) antibody (ab63569)

All lanes : Anti-STAM2 (phospho Y192) antibody (ab63569) at 1/500 dilution

Lane 1 : Extracts from NIH/3T3 cells (5-30µg), treated with EGF (200ng/ml, 30mins), minus immunising peptide.

Lane 2 : Extracts from NIH/3T3 cells (5-30µg), treated with EGF (200ng/ml, 30mins), plus immunising peptide (5-10µg).

Predicted band size: 58 kDa

Observed band size: 58 kDa

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