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AMSH Rabbit mAb

Catalog # AP76388

Product Information

Application	WB
Primary Accession	O95630
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	48077

Additional Information

Gene ID	10617
Other Names	STAMBP
Dilution	WB~~1:1000-1:5000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

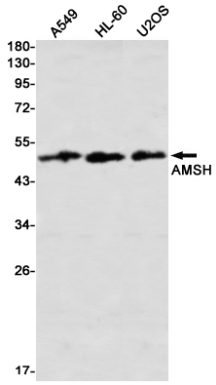
Name	STAMBP
Synonyms	AMSH {ECO:0000303|PubMed:10383417}
Function	Zinc metalloprotease that specifically cleaves 'Lys-63'- linked polyubiquitin chains (PubMed:15314065, PubMed:23542699, PubMed:34425109). Does not cleave 'Lys-48'-linked polyubiquitin chains (PubMed:15314065). Plays a role in signal transduction for cell growth and MYC induction mediated by IL-2 and GM-CSF (PubMed:10383417). Potentiates BMP (bone morphogenetic protein) signaling by antagonizing the inhibitory action of SMAD6 and SMAD7 (PubMed:11483516). Has a key role in regulation of cell surface receptor-mediated endocytosis and ubiquitin-dependent sorting of receptors to lysosomes (PubMed:15314065, PubMed:17261583). Endosomal localization of STAMBP is required for efficient EGFR degradation but not for its internalization (PubMed:15314065, PubMed:17261583). Involved in the negative regulation of PI3K-AKT-mTOR and RAS-MAP signaling pathways (PubMed:23542699).

Cellular Location	Nucleus. Membrane; Peripheral membrane protein. Cytoplasm. Early endosome
Tissue Location	Ubiquitously expressed.

Background

Cytokine-mediated signal transduction in the JAK-STAT cascade requires the involvement of adaptor molecules. One such signal-transducing adaptor molecule contains an SH3 domain that is required for induction of MYC and cell growth. The protein encoded by this gene binds to the SH3 domain of the signal-transducing adaptor molecule, and plays a critical role in cytokine-mediated signaling for MYC induction and cell cycle progression. Multiple alternatively spliced transcript variants encoding the same protein isoform have been found for this gene.

Images



Western blot analysis of AMSH in A549, HL-60, U2OS lysates using AMSH antibody.

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