

# STAMBP Rabbit pAb

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Catalog # AP58738

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">O95630</a>
<b>Reactivity</b>	Mouse, Rat
<b>Predicted</b>	Human, Dog, Horse, Rabbit
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	48077
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human AMSH
<b>Epitope Specificity</b>	331-420/424
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Nucleus. Membrane; Peripheral membrane protein. Cytoplasm. Early endosome.
<b>SIMILARITY</b>	Belongs to the peptidase M67C family. Contains 1 MPN (JAB/Mov34) domain.
<b>Post-translational modifications</b>	Phosphorylated after BMP type I receptor activation. Ubiquitinated by SMURF2 in the presence of RNF11.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	Zinc metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains. Does not cleave 'Lys-48'-linked polyubiquitin chains (By similarity). Functions at the endosome and is able to oppose the ubiquitin-dependent sorting of receptors to lysosomes. Plays a role in signal transduction for cell growth and MYC induction mediated by IL-2 and GM-CSF. Potentiates BMP (bone morphogenetic protein) signaling by antagonizing the inhibitory action of SMAD6 and SMAD7.

## Additional Information

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<b>Gene ID</b>	10617
<b>Other Names</b>	STAM-binding protein, 3.4.19.-, Associated molecule with the SH3 domain of STAM, Endosome-associated ubiquitin isopeptidase, STAMBP, AMSH {ECO:0000303   PubMed:10383417}
<b>Target/Specificity</b>	Ubiquitously expressed.
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

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

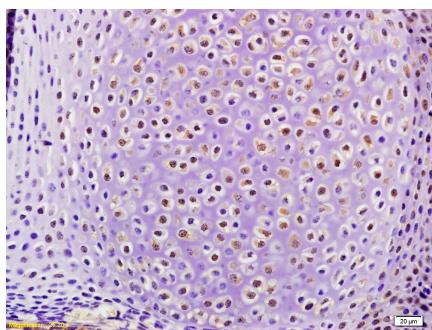
## Background

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Zinc metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains. Does not cleave 'Lys-48'-linked polyubiquitin chains (By similarity). Functions at the endosome and is able to oppose the ubiquitin-dependent sorting of receptors to lysosomes. Plays a role in signal transduction for cell growth and MYC induction mediated by IL-2 and GM-CSF. Potentiates BMP (bone morphogenetic protein) signaling by antagonizing the inhibitory action of SMAD6 and SMAD7.

## Images

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Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-AMSH/STAMBP Polyclonal Antibody, Unconjugated(AP58738) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.