

STAMBP Rabbit pAb

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Catalog # AP58738

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O95630
Reactivity	Mouse, Rat
Predicted	Human, Dog, Horse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48077
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AMSH
Epitope Specificity	331-420/424
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Membrane; Peripheral membrane protein. Cytoplasm. Early endosome.
SIMILARITY	Belongs to the peptidase M67C family. Contains 1 MPN (JAB/Mov34) domain.
Post-translational modifications	Phosphorylated after BMP type I receptor activation. Ubiquitinated by SMURF2 in the presence of RNF11.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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

Gene ID	10617
Other Names	STAM-binding protein, 3.4.19.-, Associated molecule with the SH3 domain of STAM, Endosome-associated ubiquitin isopeptidase, STAMBP, AMSH {ECO:0000303 PubMed:10383417}
Target/Specificity	Ubiquitously expressed.
Dilution	IHC-P=1:100-500, IHC-F=1:100-500, IF=1:100-500
Storage	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.

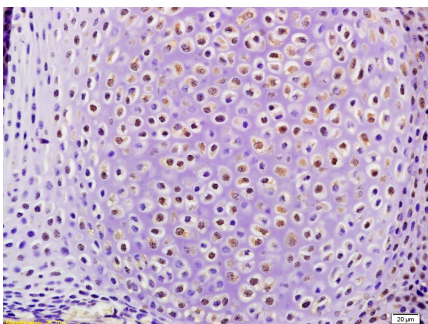
Protein Information

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

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



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'.