

AMSH Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58738

Specification

AMSH Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession
Reactivity
Rat, Dog
Host
Clonality
Calculated MW
Physical State

O95630
Rat, Dog
Rabbit
Polyclonal
47 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human AMSH

Epitope Specificity 331-420/424

Isotype

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. Belongs to the peptidase M67C

SIMILARITY Belongs to the peptidase M67C family.Contains 1 MPN (IAB/Mov34)

ianny.contains 1 MFN (JAD/MOV54)

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.

AMSH Polyclonal Antibody - 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



Target/Specificity Ubiquitously expressed.

Dilution

IHC-P~~N/A<br \> <span class
="dilution_IHC-F">IHC-F~~N/A<br \> <span class
="dilution_IF">IF~~1:50~200<br \> E~~N/A

Storage

Store at -20 $^{\circ}$ 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 $^{\circ}$ C.

AMSH Polyclonal Antibody - 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.

AMSH Polyclonal Antibody - Protocols

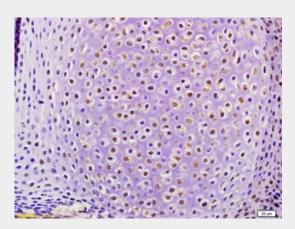
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry



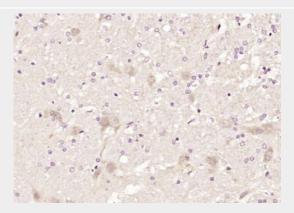
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AMSH Polyclonal Antibody - 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(bs-7735R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AMSH) Polyclonal Antibody, Unconjugated (bs-7735R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.