Anti-AMSH-LP / STAMBPL1
produced in rabbit, affinity isolated antibody

Catalog Number SAB4200145

Product Description
Anti-AMSH-LP /STAMBPL1 is produced in rabbit using as immunogen a synthetic peptide corresponding to amino acid residues 226-240 of human AMSH-LP /STAMBPL1 (GeneID: 57559), conjugated to KLH. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-AMSH-LP /STAMBPL1 recognizes human AMSH-LP /STAMBPL1. The antibody may be used in several immunochemical techniques including immunoblotting (~50 kDa) and immunofluorescence. Detection of the AMSH/STAMBP band by immunoblotting is specifically inhibited by the immunizing peptide.

AMSH-LP (AMSH-like protein), also known as STAMBPL1, is a close homolog of AMSH (Associated Molecule with the SH3 domain of STAM). AMSH and AMSH-LP belong to the JAMM domain metalloprotease family of Zn$^{2+}$-dependent deubiquitinating enzymes (DUBs). Both proteins are involved in the deubiquitination of endosomal proteins and specifically cleave K-63-linked polyubiquitin chains. Similarly to AMSH, AMSH-LP contains a nuclear localization signal (NLS), an Mpr/Pad1/N-terminal (MPN) domain, and a Jab1/MPN domain metalloenzyme (JAMM) motif.

AMSH-LP like AMSH, interacts with clathrin heavy chain and this interaction is essential for its endosomal localization. However, AMSH-LP unlike AMSH, fails to bind to the SH3 domain of STAM, suggesting that they are not functionally redundant. AMSH-LP positively regulates TGF-β signaling through interaction with inhibitory I-SMADs.1-5

Reagent
Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~ 1.0 mg/mL

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
Store at -20 °C. For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in “frost-free” freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

Product Profile
Immunoblotting: a working concentration of 1-2 µg/mL is recommended using whole extracts of human PMC2 cells.

Immunofluorescence: a working concentration of 2-5 µg/mL is recommended using human HeLa cells.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

References