

STAMPB (H-110): sc-98765

BACKGROUND

STAMPB (STAM binding protein), also known as AMSH, is a 424 amino acid protein belonging to the peptidase M67C family. Ubiquitously expressed, STAMPB functions as a zinc metalloprotease that specifically cleaves Lys 63-linked polyubiquitin chains. STAMPB is able to oppose the ubiquitin-dependent sorting of receptors to lysosomes. STAMPB may play a role in signal transduction for cell growth and Myc induction mediated by IL-2 and GM-CSF. It is suggested that STAMPB potentiates BMP (bone morphogenetic protein) signaling by antagonizing the inhibitory action of Smad6 and Smad7. STAMPB consists of the JAMM motif, which is essential for the protease activity, and is inhibited by N-ethylmaleimide.

REFERENCES

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3. Li, H., et al. 2004. An RNF11: Smurf2 complex mediates ubiquitination of the AMSH protein. *Oncogene* 23: 1801-1808.
4. Herrera-Vigener, F., et al. 2006. AMSH regulates calcium-sensing receptor signaling through direct interactions. *Biochem. Biophys. Res. Commun.* 347: 924-930.
5. McCullough, J., et al. 2006. Activation of the endosome-associated ubiquitin isopeptidase AMSH by STAM, a component of the multivesicular body-sorting machinery. *Curr. Biol.* 16: 160-165.
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8. Ma, Y.M., et al. 2007. Targeting of AMSH to endosomes is required for epidermal growth factor receptor degradation. *J. Biol. Chem.* 282: 9805-9812.
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CHROMOSOMAL LOCATION

Genetic locus: STAMPB (human) mapping to 2p13.1; Stambp (mouse) mapping to 6 C3.

SOURCE

STAMPB (H-110) is a rabbit polyclonal antibody raised against amino acids 161-270 mapping within an internal region of STAMPB of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

STAMPB (H-110) is recommended for detection of STAMPB of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

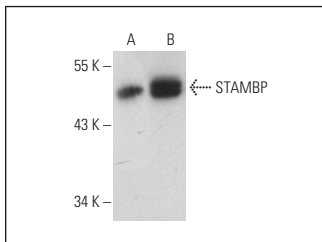
STAMPB (H-110) is also recommended for detection of STAMPB in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for STAMPB siRNA (h): sc-94512, STAMPB siRNA (m): sc-153875, STAMPB shRNA Plasmid (h): sc-94512-SH, STAMPB shRNA Plasmid (m): sc-153875-SH, STAMPB shRNA (h) Lentiviral Particles: sc-94512-V and STAMPB shRNA (m) Lentiviral Particles: sc-153875-V.

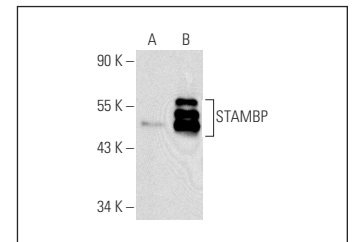
Molecular Weight of STAMPB: 50 kDa.

Positive Controls: STAMPB (h2): 293T Lysate: sc-159791, MCF7 whole cell lysate: sc-2206 or HeLa whole cell lysate: sc-2200.

DATA



STAMPB (H-110): sc-98765. Western blot analysis of STAMPB expression in non-transfected: sc-117752 (A) and mouse STAMPB transfected: sc-123806 (B) 293T whole cell lysates.



STAMPB (H-110): sc-98765. Western blot analysis of STAMPB expression in non-transfected: sc-117752 (A) and human STAMPB transfected: sc-159791 (B) 293T whole cell lysates.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **STAMPB (H-4): sc-271641** or **STAMPB (C-1): sc-398480**, our highly recommended monoclonal alternatives to STAMPB (H-110).