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STAMPB (h2): 293T Lysate: sc-159791

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

- Itoh, F., Asao, H., Sugamura, K., Heldin, C.H., ten Dijke, P. and Itoh, S. 2001. Promoting bone morphogenetic protein signaling through negative regulation of inhibitory Smads. *EMBO J.* 20: 4132-4142.
- McCullough, J., Clague, M.J. and Urbé, S. 2004. AMSH is an endosome-associated ubiquitin isopeptidase. *J. Cell Biol.* 166: 487-492.
- Li, H. and Seth, A. 2004. An RNF11: Smurf2 complex mediates ubiquitination of the AMSH protein. *Oncogene* 23: 1801-1808.
- Herrera-Vigener, F., Hernández-García, R., Valadez-Sánchez, M., Vázquez-Prado, J. and Reyes-Cruz, G. 2006. AMSH regulates calcium-sensing receptor signaling through direct interactions. *Biochem. Biophys. Res. Commun.* 347: 924-930.
- McCullough, J., Row, P.E., Lorenzo, O., Doherty, M., Beynon, R., Clague, M.J. and Urbé, S. 2006. Activation of the endosome-associated ubiquitin isopeptidase AMSH by STAM, a component of the multivesicular body-sorting machinery. *Curr. Biol.* 16: 160-165.
- Nakamura, M., Tanaka, N., Kitamura, N. and Komada, M. 2006. Clathrin anchors deubiquitinating enzymes, AMSH and AMSH-like protein, on early endosomes. *Genes Cells* 11: 593-606.
- Agromayor, M. and Martin-Serrano, J. 2006. Interaction of AMSH with ESCRT-III and deubiquitination of endosomal cargo. *J. Biol. Chem.* 281: 23083-23091.
- Ma, Y.M., Boucrot, E., Villén, J., Affar, e.I. B., Gygi, S.P., Göttlinger, H.G. and Kirchhausen, T. 2007. Targeting of AMSH to endosomes is required for epidermal growth factor receptor degradation. *J. Biol. Chem.* 282: 9805-9812.
- Sato, Y., Yoshikawa, A., Yamagata, A., Mimura, H., Yamashita, M., Ookata, K., Nureki, O., Iwai, K., Komada, M. and Fukai, S. 2008. Structural basis for specific cleavage of Lys 63-linked polyubiquitin chains. *Nature* 455: 358-362.

CHROMOSOMAL LOCATION

Genetic locus: STAMPB (human) mapping to 2p13.1.

PRODUCT

STAMPB (h2): 293T Lysate represents a lysate of human STAMPB transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

STAMPB (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive STAMPB antibodies. Recommended use: 10-20 µl per lane.

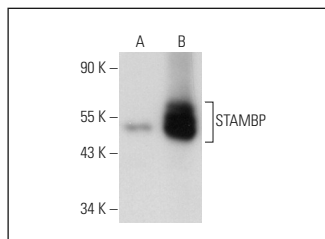
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STAMPB (H-3): sc-166565 is recommended as a positive control antibody for Western Blot analysis of enhanced human STAMPB expression in STAMPB transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

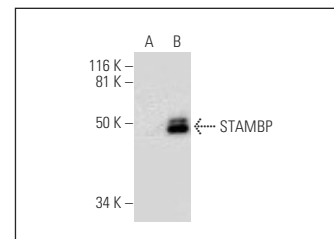
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



STAMPB (H-3): sc-166565. Western blot analysis of STAMPB expression in non-transfected: sc-117752 (A) and human STAMPB transfected: sc-159791 (B) 293T whole cell lysates.



STAMPB (H-4): sc-271641. 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 -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.