

β -TrCP/HOS (H-300): sc-15354

BACKGROUND

β -TrCP (β -transducin repeats containing protein), also designated E3RS1kB or FWD1, and HOS (homologous to slimb) are F-box proteins that function as substrate recognition subunits of ubiquitin ligases. HOS and β -TrCP differ in their amino terminal regions, but exhibit high homology within the F-box and WD40 repeat-containing regions. β -TrCP mediates ubiquitin/proteasome-dependent degradation of CD4 and ubiquitination of various proteins including I κ B and β -catenin. HOS has also been shown to regulate the degradation of I κ B and β -catenin in a similar manner.

CHROMOSOMAL LOCATION

Genetic locus: BTRC (human) mapping to 10q24.32, FBXW11 (human) mapping to 5q35.1; Btrc (mouse) mapping to 19 C3, Fbxw11 (mouse) mapping to 11 A4.

SOURCE

β -TrCP/HOS (H-300) is a rabbit polyclonal antibody raised against amino acids 8-300 mapping near the N-terminus of β -TrCP of human origin.

PRODUCT

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

APPLICATIONS

β -TrCP/HOS (H-300) is recommended for detection of β -TrCP and HOS of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

β -TrCP/HOS (H-300) is also recommended for detection of β -TrCP and HOS in additional species, including canine and porcine.

Molecular Weight of β -TrCP/HOS: 60 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

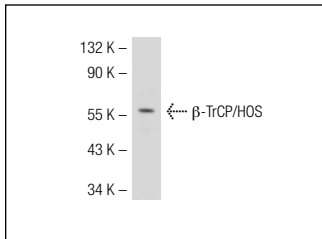
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

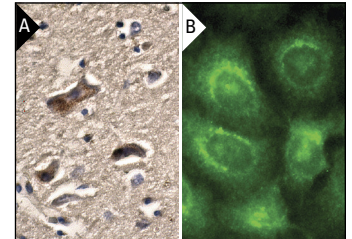
STORAGE

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

DATA



β -TrCP/HOS (H-300): sc-15354. Western blot analysis of β -TrCP/HOS expression in HeLa whole cell lysate.



β -TrCP/HOS (H-300): sc-15354. Immunoperoxidase staining of formalin fixed, paraffin-embedded human brain tissue showing cytoplasmic staining of neuronal cells (A). Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (B).

SELECT PRODUCT CITATIONS

- Yang, G., et al. 2004. Maturation differences in lung NF κ B activation and their role in tolerance to hyperoxia. *J. Clin. Invest.* 114: 669-678.
- Wang, X., et al. 2004. The role of β -transducin repeat-containing protein (β -TrCP) in the regulation of NF κ B in vascular smooth muscle cells. *Arterioscler. Thromb. Vasc. Biol.* 24: 85-90.
- Yook, J., et al. 2005. Wnt-dependent regulation of the E-cadherin repressor snail. *J. Biol. Chem.* 280: 11740-11748.
- Tian, Y., et al. 2007. TAZ promotes PC2 degradation through a SCF β -Trcp E3 ligase complex. *Mol. Cell. Biol.* 27: 6383-6395.
- Liu, C.J., et al. 2009. Akt mediates 17 β -estradiol and/or estrogen receptor- α inhibition of LPS-induced tumor necrosis factor- α expression and myocardial cell apoptosis by suppressing the JNK1/2-NF κ B pathway. *J. Cell. Mol. Med.* 13: 3655-3667.
- Su, J.L., et al. 2011. FOXO3a-dependent mechanism of E1A-induced chemosensitization. *Cancer Res.* 71: 6878-6887.
- Guan, H. and Ricciardi, R.P. 2012. Transformation by E1A oncoprotein involves ubiquitin-mediated proteolysis of the neuronal and tumor repressor REST in the nucleus. *J. Virol.* 86: 5594-5602.

RESEARCH USE

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


 MONOS
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Try β -TrCP/HOS (F-10): sc-166492 or β -TrCP (C-6): sc-390629, our highly recommended monoclonal alternatives to β -TrCP/HOS (H-300).