

HOS (h): 293T Lysate: sc-113730

BACKGROUND

β -transducin repeats containing protein (β -TrCP), also designated E3RSIkB 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.

REFERENCES

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2. Margottin, F., Bour, S.P., Durand, H., Selig, L., Benichou, S., Richard, V., Thomas, D., Strebel, K. and Benarous, R. 1998. A novel human WD protein, h β -TrCP, that interacts with HIV-1 Vpu connects CD4 to the ER degradation pathway through an F-box motif. *Mol. Cell* 1: 565-574.
3. Zhou, P. and Howley, P.M. 1998. Ubiquitination and degradation of the substrate recognition subunits of SCF ubiquitin-protein ligases. *Mol. Cell* 2: 571-580.
4. Yaron, A., Hatzubai, A., Davis, M., Lavon, I., Amit, S., Manning, A.M., Andersen, J.S., Mann, M., Mercurio, F. and Ben-Neriah, Y. 1998. Identification of the receptor component of the I κ B- α ubiquitin ligase. *Nature* 396: 590-594.
5. Fuchs, S.Y., Chen, A., Xiong, Y., Pan, Z.Q. and Ronai, Z. 1999. HOS, a human homolog of Slimb, forms an SCF complex with Skp1 and Cullin1 and targets the phosphorylation-dependent degradation of I κ B and β -catenin. *Oncogene* 18: 2039-2046.

CHROMOSOMAL LOCATION

Genetic locus: FBXW11 (human) mapping to 5q35.1.

PRODUCT

HOS (h): 293T Lysate represents a lysate of human HOS transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

HOS (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HOS antibodies. Recommended use: 10-20 μ l per lane

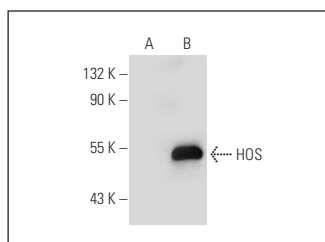
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

β -TrCP/HOS (F-10): sc-166492 is recommended as a positive control antibody for Western Blot analysis of enhanced human HOS expression in HOS transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

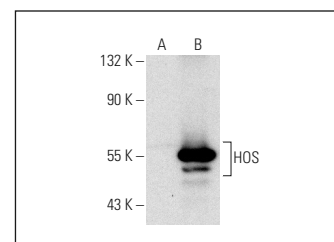
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



β -TrCP/HOS (F-10): sc-166492. Western blot analysis of HOS expression in non-transfected: sc-117752 (A) and human HOS transfected: sc-113730 (B) 293T whole cell lysates.



β -TrCP/HOS (F-10): sc-166492. Western blot analysis of HOS expression in non-transfected: sc-117752 (A) and human HOS transfected: sc-113730 (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.