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WBP1 siRNA (m): sc-155242

BACKGROUND

WW domain-binding protein 1 (WBP1) is a 269 amino acid protein expressed in most tissues. The WW domain is composed of 38 to 40 semiconserved amino acids and is shared by various groups of proteins, including structural, regulatory and signaling proteins. The domain mediates protein-protein interactions through the binding of polyproline ligands. WBP1 binds to the WW domain of Yes-associated protein (YAP), WW domain containing E3 ubiquitin protein ligase 1 (AIP5) and WW domain containing E3 ubiquitin protein ligase 2 (AIP2). It also interacts, primarily, with neural precursor cell expressed, developmentally down-regulated 4 (NEDD4) and WW domain containing oxidoreductase (WWOX).

REFERENCES

- Chen, H.I. and Sudol, M. 1995. The WW domain of Yes-associated protein binds a proline-rich ligand that differs from the consensus established for Src homology 3-binding modules. *Proc. Natl. Acad. Sci. USA* 92: 7819-7823.
- Pirozzi, G., McConnell, S.J., Uveges, A.J., Carter, J.M., Sparks, A.B., Kay, B.K. and Fowlkes, D.M. 1997. Identification of novel human WW domain-containing proteins by cloning of ligand targets. *J. Biol. Chem.* 272: 14611-14616.
- Chen, H.I., Einbond, A., Kwak, S.J., Linn, H., Koepf, E., Peterson, S., Kelly, J.W. and Sudol, M. 1997. Characterization of the WW domain of human yes-associated protein and its polyproline-containing ligands. *J. Biol. Chem.* 272: 17070-17077.
- Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 606961. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Seo, M.D., Park, S.J., Kim, H.J. and Lee, B.J. 2007. Identification of the WW domain-interaction sites in the unstructured N-terminal domain of EBV LMP 2A. *FEBS Lett.* 581: 65-70.
- Raikwar, N.S. and Thomas, C.P. 2008. Nedd4-2 isoforms ubiquitinate individual epithelial sodium channel subunits and reduce surface expression and function of the epithelial sodium channel. *Am. J. Physiol. Renal Physiol.* 294: F1157-F1165.
- Qin, H., Pu, H.X., Li, M., Ahmed, S. and Song, J. 2008. Identification and structural mechanism for a novel interaction between a ubiquitin ligase WWP1 and Nogo-A, a key inhibitor for central nervous system regeneration. *Biochemistry* 47: 13647-13658.
- Wang, K., Degerny, C., Xu, M. and Yang, X.J. 2009. YAP, TAZ, and Yorkie: a conserved family of signal-responsive transcriptional coregulators in animal development and human disease. *Biochem. Cell Biol.* 87: 77-91.
- Feng, S.M., Muraoka-Cook, R.S., Hunter, D., Sandahl, M.A., Caskey, L.S., Miyazawa, K., Atfi, A. and Earp, H.S. 2009. The E3 ubiquitin ligase WWP1 selectively targets HER4 and its proteolytically derived signaling isoforms for degradation. *Mol. Cell. Biol.* 29: 892-906.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: *Wbp1* (mouse) mapping to 6 C3.

PRODUCT

WBP1 siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see WBP1 shRNA Plasmid (m): sc-155242-SH and WBP1 shRNA (m) Lentiviral Particles: sc-155242-V as alternate gene silencing products.

For independent verification of WBP1 (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-155242A, sc-155242B and sc-155242C.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNase-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

WBP1 siRNA (m) is recommended for the inhibition of WBP1 expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 μ M in 66 μ l. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor WBP1 gene expression knockdown using RT-PCR Primer: WBP1 (m)-PR: sc-155242-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

RESEARCH USE

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