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UBXD3 siRNA (m): sc-154880

BACKGROUND

The UBX (ubiquitin regulatory X) domain is an 80 amino acid motif that is usually present on the carboxy-terminus of certain eukaryotic proteins. UBX domain-containing proteins (UBXD), such as FAF1, p33ING1 and D8S2298E, are typically involved in ubiquitin-related processes. UBXD proteins also constitute the largest family of VCP cofactors and are generally involved in substrate recruitment to VCP, as well as regulation of its activity. UBXD3 (UBX domain-containing protein 3), also known as UBXN10 (UBX domain-containing protein 10), is a 280 amino acid protein that contains one UBX domain. The gene encoding UBXD3 maps to human chromosome 1p36.12, the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1.

REFERENCES

1. Buchberger, A. 2002. From UBA to UBX: new words in the ubiquitin vocabulary. *Trends Cell Biol.* 12: 216-221.
2. Dreveny, I., Kondo, H., Uchiyama, K., Shaw, A., Zhang, X. and Freemont, P.S. 2004. Structural basis of the interaction between the AAA ATPase p97/VCP and its adaptor protein p47. *EMBO J.* 23: 1030-1039.
3. Bruderer, R.M., Brasseur, C. and Meyer, H.H. 2004. The AAA ATPase p97/VCP interacts with its alternative co-factors, Ufd1-Npl4 and p47, through a common bipartite binding mechanism. *J. Biol. Chem.* 279: 49609-49616.
4. Gregory, S.G., Barlow, K.F., McLay, K.E., Kaul, R., Swarbreck, D., Dunham, A., Scott, C.E., Howe, K.L., Woodfine, K.C., Spencer, C.A., Jones, M.C., Gillson, C., Searle, S., Zhou, Y., Kokocinski, F., McDonald, L., et al. 2006. The DNA sequence and biological annotation of human chromosome 1. *Nature* 441: 315-321.
5. Yeung, H.O., Kloppsteck, P., Niwa, H., Isaacson, R.L., Matthews, S., Zhang, X. and Freemont, P.S. 2008. Insights into adaptor binding to the AAA protein p97. *Biochem. Soc. Trans.* 36: 62-67.
6. Schubert, C. and Buchberger, A. 2008. UBX domain proteins: major regulators of the AAA ATPase Cdc48/p97. *Cell. Mol. Life Sci.* 65: 2360-2371.
7. Kern, M., Fernandez-Sáiz, V., Schäfer, Z. and Buchberger, A. 2009. UBXD1 binds p97 through two independent binding sites. *Biochem. Biophys. Res. Commun.* 380: 303-307.
8. Nagahama, M., Ohnishi, M., Kawate, Y., Matsui, T., Miyake, H., Yuasa, K., Tani, K., Tagaya, M. and Tsuji, A. 2009. UBXD1 is a VCP-interacting protein that is involved in ER-associated degradation. *Biochem. Biophys. Res. Commun.* 382: 303-308.

CHROMOSOMAL LOCATION

Genetic locus: Ubxn10 (mouse) mapping to 4 D3.

PROTOCOLS

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

PRODUCT

UBXD3 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 UBXD3 shRNA Plasmid (m): sc-154880-SH and UBXD3 shRNA (m) Lentiviral Particles: sc-154880-V as alternate gene silencing products.

For independent verification of UBXD3 (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-154880A, sc-154880B and sc-154880C.

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

UBXD3 siRNA (m) is recommended for the inhibition of UBXD3 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 UBXD3 gene expression knockdown using RT-PCR Primer: UBXD3 (m)-PR: sc-154880-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.