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SANTA CRUZ BIOTECHNOLOGY, INC.

Myosin Ig siRNA (m): sc-44622

BACKGROUND

Actin is a highly conserved protein that is expressed in all eukaryotic cells. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. Troponin facilitates interaction between Actin and Myosin by binding to Ca^{2+}. Troponin is made up of at least two subunits, which are divergent in cardiac muscle, fast skeletal muscle and slow skeletal muscle. Myosin is a hexamer of two heavy chains (MHC) and four light chains (MLC) that interacts with Actin to generate the force for diverse cellular movements, including cytokinesis, phagocytosis and muscle contraction. MYO1G, the gene encoding for the Myosin Ig protein, maps to chromosome 7p13.

REFERENCES

1. Pierce, R.A., Field, E.D., Mutis, T., Golovina, T.N., Von Kap-Herr, C., Wilke, M., Pool, J., Shabanowitz, J., Pettenati, M.J., Eisenlohr, L.C., Hunt, D.F., Goulmy, E. and Engelhard, V.H. 2001. The HA-2 minor histocompatibility antigen is derived from a diallelic gene encoding a novel human class I Myosin protein. J. Immunol. 167: 3223-3230.
2. Dumont, R.A., Zhao, Y.D., Holt, J.R., Bahler, M. and Gillespie, P.G. 2002. Myosin I isozymes in neonatal rodent auditory and vestibular epithelia. J. Assoc. Res. Otolaryngol. 3: 375-389.
3. Wilke, M., Pool, J. and Goulmy, E. 2002. Allele specific PCR for the minor histocompatibility antigen HA-2. Tissue Antigens 59: 304-307.
4. http://harvester.embl.de/harvester/Q96B/Q96BE2.htm

CHROMOSOMAL LOCATION

Genetic locus: Myo1g (mouse) mapping to 11 A1.

PRODUCT

Myosin Ig 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Myosin Ig shRNA Plasmid (m): sc-44622-SH and Myosin Ig shRNA (m) Lentiviral Particles: sc-44622-V as alternate gene silencing products.

For independent verification of Myosin Ig (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-44622A, sc-44622B and sc-44622C.

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 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

Myosin Ig siRNA (m) is recommended for the inhibition of Myosin Ig 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 µM in 66 µl. 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 Myosin Ig gene expression knockdown using RT-PCR Primer: Myosin Ig (m)-PR: sc-44622-PR (20 µl). 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.

PROTOCOLS

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