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Glomulin shRNA (h) Lentiviral Particles: sc-45356-V

BACKGROUND

Glomuvenous malformations (GVMs) are cutaneous venous lesions characterized by the presence of smooth muscle-like glomus cells in the walls of distended vacular lumens. Complete loss of function of the glomulin gene, which resides within chromosome 1p21-22, results in GVMs. Glomulin, also designated FKBP-associated protein (FAP), exists as two isoforms FAP48 and FAP68. Glomulin is crucial for normal development of the vascular system and plays a role in the differentiation of vascular smooth-muscle cells and vascular morphogenesis. Glomulin is a ubiquitously expressed membrane anchoring protein.

REFERENCES

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2. Neye, H., et al. 2001. Mutation of FKBP associated protein 48 (FAP48) at proline 219 disrupts the interaction with FKBP12 and FKBP52. *Regul. Pept.* 97: 147-152.
3. Brouillard, P., et al. 2002. Mutations in a novel factor, glomulin, are responsible for glomuvenous malformations ("glomangiomas"). *Am. J. Hum. Genet.* 70: 866-874.
4. Krummrei, U., et al. 2003. The FKBP-associated protein FAP48 is an antiproliferative molecule and a player in T cell activation that increases IL2 synthesis. *Proc. Natl. Acad. Sci. USA* 100: 2444-2449.
5. Boon, L.M., et al. 2004. Glomuvenous malformation (glomangioma) and venous malformation: distinct clinicopathologic and genetic entities. *Arch. Dermatol.* 140: 971-976.
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CHROMOSOMAL LOCATION

Genetic locus: GLMN (human) mapping to 1p22.1.

PRODUCT

Glomulin shRNA (h) Lentiviral Particles is a pool of concentrated, transduction-ready viral particles containing 3 target-specific constructs that encode 19-25 nt (plus hairpin) shRNA designed to knock down gene expression. Each vial contains 200 μ l frozen stock containing 1.0×10^6 infectious units of virus (IFU) in Dulbecco's Modified Eagle's Medium with 25 mM HEPES pH 7.3. Suitable for 10-20 transductions. Also see Glomulin siRNA (h): sc-45356 and Glomulin shRNA Plasmid (h): sc-45356-SH as alternate gene silencing products.

STORAGE

Store lentiviral particles at -80°C . Stable for at least one year from the date of shipment. Once thawed, particles can be stored at 4°C for up to one week. Avoid repeated freeze thaw cycles.

APPLICATIONS

Glomulin shRNA (h) Lentiviral Particles is recommended for the inhibition of Glomulin expression in human cells.

SUPPORT REAGENTS

Control shRNA Lentiviral Particles: sc-108080. Available as 200 μ l frozen viral stock containing 1.0×10^6 infectious units of virus (IFU); contains an shRNA construct encoding a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA.

GENE EXPRESSION MONITORING

Glomulin (G-20): sc-34297 is recommended as a control antibody for monitoring of Glomulin gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor Glomulin gene expression knockdown using RT-PCR Primer: Glomulin (h)-PR: sc-45356-PR (20 μ l). Annealing temperature for the primers should be $55-60^\circ\text{C}$ and the extension temperature should be $68-72^\circ\text{C}$.

BIOSAFETY

Lentiviral particles can be employed in standard Biosafety Level 2 tissue culture facilities (and should be treated with the same level of caution as with any other potentially infectious reagent). Lentiviral particles are replication-incompetent and are designed to self-inactivate after transduction and integration of shRNA constructs into genomic DNA of target cells.

RESEARCH USE

The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product and all replicates and derivatives for research purposes conducted by the buyer in his laboratory only (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party, or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

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