

OLFM3 (N-14): sc-163185

BACKGROUND

OLFM3 (olfactomedin 3), also known as NOE3, is a 478 amino acid protein that interacts with myocilin. Myocilin is an extracellular protein that plays a key role in the actomyosin system and is responsible for controlling intraocular pressure. OLFM3 is a secreted protein that contains an olfactomedin-like (OLF) domain, an approximately 260 amino acid motif commonly found in secreted glycoproteins. OLFM3 localizes to the Golgi apparatus of the cell and is highly expressed in both eye and brain tissue. Mutations in the gene that encodes OLFM3 may cause severe glaucoma, a condition in which increased intraocular pressure within the eyeball causes loss of eye sight.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OLFM3 (human) mapping to 1p21.1; Olfm3 (mouse) mapping to 3 F3.

SOURCE

OLFM3 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of OLFM3 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-163185 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OLFM3 (N-14) is recommended for detection of OLFM3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other OLFM family members.

OLFM3 (N-14) is also recommended for detection of OLFM3 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for OLFM3 siRNA (h): sc-78597, OLFM3 siRNA (m): sc-150194, OLFM3 shRNA Plasmid (h): sc-78597-SH, OLFM3 shRNA Plasmid (m): sc-150194-SH, OLFM3 shRNA (h) Lentiviral Particles: sc-78597-V and OLFM3 shRNA (m) Lentiviral Particles: sc-150194-V.

Molecular Weight of OLFM3: 55 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

RECOMMENDED SECONDARY REAGENTS

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.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.



Try **OLFM3 (M-N16): sc-100795**, our highly recommended monoclonal alternative to OLFM3 (N-14).