

OLFM1 (S-12): sc-165155

BACKGROUND

The olfactomedin family comprises a diverse group of secreted glycoproteins, which includes OLFM1 (Noelin-1), OLFM2 (Noelin-2), OLFM3 (Noelin-3), OLFM4 (Noelin-4), tiarin, pancortin, gliomedin and myocilin. These proteins are implicated in the development of the nervous system. Specifically, OLFM1 and OLFM2 expression is observed in the neural plate and neural crest, as well as in the cranial ganglia in mouse at E8-10, and later in brain tissue and in the zone of polarizing activity in the limb. Overexpression of OLFM1 causes an excess of neural crest emigrations and prolonged neural crest production. OLFM2 participates in the regulation of the development of the anterior nervous system. An Arg144Gln mutation in OLFM2 has been implicated as a possible cause for open-angle glaucoma (OAG).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OLFM1 (human) mapping to 9q34.3; Olfm1 (mouse) mapping to 2 A3.

SOURCE

OLFM1 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of OLFM1 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-165155 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OLFM1 (S-12) is recommended for detection of OLFM1 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.

OLFM1 (S-12) is also recommended for detection of OLFM1 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for OLFM1 siRNA (h): sc-92680, OLFM1 siRNA (m): sc-150192, OLFM1 shRNA Plasmid (h): sc-92680-SH, OLFM1 shRNA Plasmid (m): sc-150192-SH, OLFM1 shRNA (h) Lentiviral Particles: sc-92680-V and OLFM1 shRNA (m) Lentiviral Particles: sc-150192-V.

Molecular Weight of OLFM1: 55 kDa.

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.