

OLFML2A (T-12): sc-136782

BACKGROUND

OLFML2A (olfactomedin-like protein 2A), also known as photomedin-1, is a 652 amino acid secreted protein that contains one olfactomedin-like domain and exists as 3 alternatively spliced isoforms. OLFML2A can also form a homodimer and is known to bind chondroitin sulfate E and heparin. The gene encoding OLFML2A maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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- Burmeister, T., et al. 2007. Atypical Bcr-Abl mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.
- Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (rendu-osler disease). *Respiration* 74: 361-378.
- Zeit, M.J., et al. 2009. Organization of the amplified type I interferon gene cluster and associated chromosome regions in the interphase nucleus of human osteosarcoma cells. *Chromosome Res.* 17: 305-319.
- Gold-von Simson, G., et al. 2009. Kinetin in familial dysautonomia carriers: implications for a new therapeutic strategy targeting mRNA splicing. *Pediatr. Res.* 65: 341-346.
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CHROMOSOMAL LOCATION

Genetic locus: OLFML2A (human) mapping to 9q33.3; Olfml2a (mouse) mapping to 2 B.

SOURCE

OLFML2A (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of OLFML2A 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-136782 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

OLFML2A (T-12) is recommended for detection of OLFML2A isoforms 1-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 OLFML2B.

OLFML2A (T-12) is also recommended for detection of OLFML2A isoforms 1-3 in additional species, including equine and canine.

Suitable for use as control antibody for OLFML2A siRNA (h): sc-92941, OLFML2A siRNA (m): sc-150196, OLFML2A shRNA Plasmid (h): sc-92941-SH, OLFML2A shRNA Plasmid (m): sc-150196-SH, OLFML2A shRNA (h) Lentiviral Particles: sc-92941-V and OLFML2A shRNA (m) Lentiviral Particles: sc-150196-V.

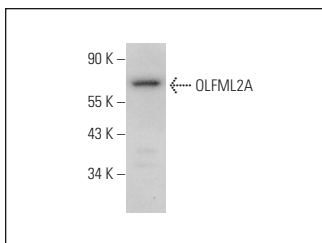
Molecular Weight of OLFML2A: 73 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



OLFML2A (T-12): sc-136782. Western blot analysis of OLFML2A expression in RAW 264.7 whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures.