SANTA CRUZ BIOTECHNOLOGY, INC.

OLFML2A (L-13): sc-136780

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 three 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

1. Zhuang, H., et al. 2006. Lupus-like disease and high interferon levels corresponding to trisomy of the type I interferon cluster on chromosome 9p. Arthritis Rheum. 54: 1573-1579.
2. Burmeister, T., et al. 2007. Atypical BCR-ABL mRNA transcripts in adult acute lymphoblastic leukemia. Haematologica 92: 1699-1702.
3. Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (Rendu-Osler disease). Respiration 74: 361-378.
4. Zeitz, 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.
5. 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.
6. Axelrod, F.B., et al. 2010. Neuroimaging supports central pathology in familial dysautonomia. J. Neurol. 257: 198-206.

CHROMOSOMAL LOCATION

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

SOURCE

OLFML2A (L-13) 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-136780 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 (L-13) 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), 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 (L-13) is also recommended for detection of OLFML2A isoforms 1-3 in additional species, including porcine and avian.

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.

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.

RESEARCH USE

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