

OSCP1 (N-12): sc-161980

BACKGROUND

OSCP1 (organic solute transport protein 1), also known as NOR1 (oxidoreduced-nitro domain-containing protein 1), is a 379 amino acid basal membrane protein. OSCP1 is ubiquitously expressed, with highest levels found in testis, placenta and tumor-derived cell lines. Localized to the syncytiotrophoblast in placenta, OSCP1 is thought to be involved in drug clearance in placenta. OSCP1 may also be involved in the progression or development of nasopharyngeal carcinoma. OSCP1 is expressed as two isoforms produced by alternative splicing events. The gene that encodes OSCP1 maps to human chromosome 1, which is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome.

REFERENCES

1. Nie, X., et al. 2003. Cloning, expression, and mutation analysis of NOR1, a novel human gene down-regulated in HNE1 nasopharyngeal carcinoma cell line. *J. Cancer Res. Clin. Oncol.* 129: 410-414.
2. Online Mendelian Inheritance in Man, OMIM™. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 608854. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Kobayashi, Y., et al. 2005. Isolation and functional characterization of a novel organic solute carrier protein, hOSCP1. *J. Biol. Chem.* 280: 32332-32339.
4. Weise, A., et al. 2005. New insights into the evolution of chromosome 1. *Cytogenet. Genome Res.* 108: 217-222.
5. Gregory, S.G., et al. 2006. The DNA sequence and biological annotation of human chromosome 1. *Nature* 441: 315-321.
6. Marzin, Y., et al. 2006. Chromosome 1 abnormalities in multiple myeloma. *Anticancer Res.* 26: 953-959.

CHROMOSOMAL LOCATION

Genetic locus: OSCP1 (human) mapping to 1p34.3; OSCP1 (mouse) mapping to 4 D2.2.

SOURCE

OSCP1 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of OSCP1 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-161980 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.

RESEARCH USE

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

APPLICATIONS

OSCP1 (N-12) is recommended for detection of OSCP1 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).

OSCP1 (N-12) is also recommended for detection of OSCP1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for OSCP1 siRNA (h): sc-88426, OSCP1 siRNA (m): sc-151330, OSCP1 shRNA Plasmid (h): sc-88426-SH, OSCP1 shRNA Plasmid (m): sc-151330-SH, OSCP1 shRNA (h) Lentiviral Particles: sc-88426-V and OSCP1 shRNA (m) Lentiviral Particles: sc-151330-V.

Molecular Weight of OSCP1: 43 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.

PROTOCOLS

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