

OB-cadherin (C-16): sc-6463

BACKGROUND

The cadherins are a family of Ca²⁺-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. Cadherins each contain a large extracellular domain at the amino terminus, which is characterized by a series of five homologous repeats, the most distal of which is thought to be responsible for binding specificity. The relatively short carboxy-terminal, intracellular domain interacts with a variety of cytoplasmic proteins, including catenin β , to regulate cadherin function. Two forms of OB-cadherin (for osteoblast-cadherin, also designated cadherin-11 or OSF-4) have been identified as OB-cadherin-1 and OB-cadherin-2. Both OB-cadherins are expressed in osteoblastic cell lines and low expression is also seen in lungs, testis and brain. OB-cadherin-2 has a truncated cytoplasmic domain.

CHROMOSOMAL LOCATION

Genetic locus: CDH11 (human) mapping to 16q22.1; Cdh11 (mouse) mapping to 8 D2.

SOURCE

OB-cadherin (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of OB-cadherin of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-6463 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OB-cadherin (C-16) is recommended for detection of OB-cadherin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

OB-cadherin (C-16) is also recommended for detection of OB-cadherin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for OB-cadherin siRNA (h): sc-36113, OB-cadherin siRNA (m): sc-36114, OB-cadherin shRNA Plasmid (h): sc-36113-SH, OB-cadherin shRNA Plasmid (m): sc-36114-SH, OB-cadherin shRNA (h) Lentiviral Particles: sc-36113-V and OB-cadherin shRNA (m) Lentiviral Particles: sc-36114-V.

Molecular Weight of OB-cadherin: 111 kDa.

Positive Controls: rat brain extract: sc-2392.

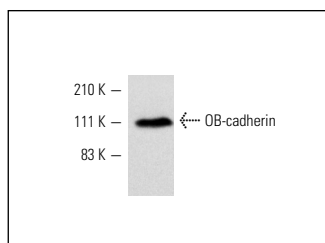
STORAGE

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.

DATA



OB-cadherin (C-16): sc-6463. Western blot analysis of OB-cadherin expression in rat brain extract.

SELECT PRODUCT CITATIONS

- Orlandini, M., et al. 2001. In fibroblasts Vegf-D expression is induced by cell-cell contact mediated by cadherin-11. *J. Biol. Chem.* 276: 6576-6581.
- Estivill-Torrús, G., et al. 2001. The transcription factor Pax6 is required for development of the diencephalic dorsal midline secretory radial glia that form the subcommissural organ. *Mech. Dev.* 109: 215-224.
- Strutz, F., et al. 2002. Role of basic fibroblast growth factor-2 in epithelial-mesenchymal transformation. *Kidney Int.* 61: 1714-1728.
- Forster, C., et al. 2002. Involvement of estrogen receptor β in terminal differentiation of mammary gland epithelium. *Proc. Natl. Acad. Sci. USA* 99: 15578-15583.
- Klucky, B., et al. 2004. Polyomavirus tumorantigens have a profound effect on gene expression in mouse fibroblasts. *Oncogene* 23: 4707-4721.
- Lai, C.F., et al. 2006. Accentuated ovariectomy-induced bone loss and altered osteogenesis in heterozygous N-cadherin null mice. *J. Bone Miner. Res.* 21: 1897-1906.
- Molla-Herman, A., et al. 2010. The ciliary pocket: an endocytic membrane domain at the base of primary and motile cilia. *J. Cell Sci.* 123: 1785-1795.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **OB-cadherin (F-3): sc-365867**, our highly recommended monoclonal alternative to OB-cadherin (C-16).