

Chondrolectin (E-19): sc-54867

BACKGROUND

Chondrolectin, also known as transmembrane protein MT75 or CHODL, is an N-glycosylated, single-pass type I membrane protein that localizes to the endoplasmic reticulum (ER)-Golgi apparatus. Chondrolectin contains one carbohydrate recognition (CRD) domain and is predominantly expressed in vascular muscle of testis, red pulp of spleen and smooth muscle of prostate. Chondrolectin is also found in heart muscle, skeletal muscle and small intestine. Chondrolectin shares significant homology with the hyaluronan receptor, Layilin, but does not appear to interact with hyaluronan. At least two other isoforms of Chondrolectin exist due to alternative splicing. They are soluble proteins and are designated CHODL_{ΔE} and CHODL_{fΔE}. These isoforms may play an important role in T cell development.

REFERENCES

1. Weng, L., Smits, P., Wauters, J. and Merregaert, J. 2002. Molecular cloning and characterization of human Chondrolectin, a novel type I transmembrane protein homologous to C-type lectins. *Genomics* 80: 62-70.
2. Weng, L., Hübner, R., Claessens, A., Smits, P., Wauters, J., Tylzanowski, P., Van Marck, E. and Merregaert, J. 2003. Isolation and characterization of Chondrolectin (Chodl), a novel C-type lectin predominantly expressed in muscle cells. *Gene* 308: 21-29.
3. Weng, L., Van Bockstaele, D.R., Wauters, J., Van Marck, E., Plum, J., Berneman, Z.N. and Merregaert, J. 2003. A novel alternative spliced Chondrolectin isoform lacking the transmembrane domain is expressed during T cell maturation. *J. Biol. Chem.* 278: 19164-19170.
4. Molloy, C.A., Keddache, M. and Martin, L.J. 2005. Evidence for linkage on 21q and 7q in a subset of autism characterized by developmental regression. *Mol. Psychiatry* 10: 741-746.
5. Claessens, A., Van de Vijver, K., Van Bockstaele, D.R., Wauters, J., Berneman, Z.N., Van Marck, E. and Merregaert, J. 2007. Expression and localization of CHODL_{ΔE} / CHODL_{fΔE}, the soluble isoform of Chondrolectin. *Cell Biol. Int.* 31: 1323-1330.

CHROMOSOMAL LOCATION

Genetic locus: CHODL (human) mapping to 21q21.1; Chodl (mouse) mapping to 16 C3.1.

SOURCE

Chondrolectin (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of Chondrolectin 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-54867 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Chondrolectin (E-19) is recommended for detection of Chondrolectin 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).

Chondrolectin (E-19) is also recommended for detection of Chondrolectin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Chondrolectin siRNA (h): sc-62108, Chondrolectin siRNA (m): sc-62109, Chondrolectin shRNA Plasmid (h): sc-62108-SH, Chondrolectin shRNA Plasmid (m): sc-62109-SH, Chondrolectin shRNA (h) Lentiviral Particles: sc-62108-V and Chondrolectin shRNA (m) Lentiviral Particles: sc-62109-V.

Molecular Weight of Chondrolectin: 36 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.



Try **Chondrolectin (1A5): sc-517077**, our highly recommended monoclonal alternative to Chondrolectin (E-19).