EXTL1 (L-12): sc-137455



The Power to Question

BACKGROUND

EXTL1 (exostosin-like 1), also known as glucuronosyl-N-acetylglucosaminyl-proteoglycan 4- α -N-acetylglucosaminyltransferase or multiple exostosis-like protein, is a 676 amino acid single-pass type II membrane protein that localizes to the Endoplasmic reticulum membrane. Belonging to the glycosyltransferase 47 family, EXTL1 is highly homologous to family members EXTL2 and EXTL3, all of which may be potential candidates for mutations resulting in the development of benign multiple cartilagenous bone tumors, or exostoses. EXTL1 may have catalytic activity, acting as a glycosyltransferase essential for chain polymerization of heparan sulfate and heparin. The gene encoding EXTL1 maps to human chromosome 1p36.11; this region has been linked to a range of diseases including breast carcinoma, colorectal cancer and neuroblastoma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EXTL1 (human) mapping to 1p36.11.

SOURCE

EXTL1 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of EXTL1 of human origin.

STORAGE

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

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-137455 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EXTL1 (L-12) is recommended for detection of EXTL1 of 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 EXTL2 or EXTL3.

EXTL1 (L-12) is also recommended for detection of EXTL1 in additional species, including equine and canine.

Suitable for use as control antibody for EXTL1 siRNA (h): sc-88349, EXTL1 shRNA Plasmid (h): sc-88349-SH and EXTL1 shRNA (h) Lentiviral Particles: sc-88349-V.

Molecular Weight of EXTL1: 75 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.

PROTOCOLS

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

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