

COBLL1 (O-24): sc-101920

BACKGROUND

COBLL1 (Cordon-bleu protein-like 1), also known as COBLR1 or COBL-like 1, is a 1,204 amino acid protein expressed in liver, kidney, pancreas, spinal cord, brain, lung and ovary. The mouse and human COBLL1 proteins share 63% identity. COBLL1 is highly related to Cordon-bleu, a protein involved in midline development that is specifically expressed in the node and its derivatives, including a portion of the neural tube floor plate, the notochord and the dorsal foregut. Both Cordon-bleu and COBLL1 contain a conserved N-terminus with KRAP (lysine, arginine and proline-rich) repeats, a homologous C-terminus with at least one WH2 domain (one in COBLL1 and three in Cordon-bleu) and a divergent central region. Due to the high degree of similarity between COBLL1 and Cordon-bleu, it has been suggested that COBLL1 may functionally compensate for Cordon-bleu in its absence.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: COBLL1 (human) mapping to 2q24.3; Cobll1 (mouse) mapping to 2 C1.3.

RESEARCH USE

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

SOURCE

COBLL1 (O-24) is a purified rabbit polyclonal antibody raised against COBLL1 of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

COBLL1 (O-24) is recommended for detection of COBLL1 of mouse, rat, human and dog origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for COBLL1 siRNA (h): sc-94776, COBLL1 siRNA (m): sc-142449, COBLL1 shRNA Plasmid (h): sc-94776-SH, COBLL1 shRNA Plasmid (m): sc-142449-SH, COBLL1 shRNA (h) Lentiviral Particles: sc-94776-V and COBLL1 shRNA (m) Lentiviral Particles: sc-142449-V.

Molecular Weight of COBLL1: 132 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz[™]: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

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.