

CRALBPL (L-17): sc-87060

BACKGROUND

CRALBPL (cellular retinaldehyde-binding protein-like), also known as retinaldehyde-binding protein 1-like protein 1, is a 354 amino acid protein that contains a CRAL-TRIO domain, which is typically present in lipid-binding SEC14-like proteins. CRALBPL has 45% sequence similarity to a retina and pineal gland-specific protein, CRALBP (cellular retinaldehyde-binding protein), which is likely involved in the visual process and may be implicated in visual diseases, such as retinitis pigmentosa, Newfoundland rod-cone dystrophy and retinitis punctata albescens. CRALBPL is expressed exclusively in the brain and localizes in the cytoplasm near CRALBP. Due to up-regulation of the gene encoding CRALBPL in human hepatocellular carcinoma (HCC), it is suggested that CRALBPL may be a suitable HCC marker. There are two isoforms of CRALBPL that exist as a result of alternative splicing events.

REFERENCES

1. Intres, R., et al. 1994. Molecular cloning and structural analysis of the human gene encoding cellular retinaldehyde-binding protein. *J. Biol. Chem.* 269: 25411-25418.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 180090. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Kong, Y.H., et al. 2006. Cloning and characterization of a novel, human cellular retinaldehyde-binding protein CRALBP-like (CRALBPL) gene. *Biotechnol. Lett.* 28: 1327-1333.
4. Deeg, C.A., et al. 2007. CRALBP is a highly prevalent autoantigen for human autoimmune uveitis. *Clin. Dev. Immunol.* 2007: 39245.
5. Zhao, S., et al. 2008. Cellular retinaldehyde-binding protein-like (CRALBPL), a novel human Sec14p-like gene that is upregulated in human hepatocellular carcinomas, may be used as a marker for human hepatocellular carcinomas. *DNA Cell Biol.* 27: 159-163.

CHROMOSOMAL LOCATION

Genetic locus: RLBPL1 (human) mapping to 8q12.3; Rlbp111 (mouse) mapping to 4 A1.

SOURCE

CRALBPL (L-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of CRALBPL of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87060 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.

APPLICATIONS

CRALBPL (L-17) is recommended for detection of CRALBPL of mouse, rat and human 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with CRALBPL-2.

CRALBPL (L-17) is also recommended for detection of CRALBPL in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CRALBPL siRNA (h): sc-77860, CRALBPL siRNA (m): sc-142557, CRALBPL shRNA Plasmid (h): sc-77860-SH, CRALBPL shRNA Plasmid (m): sc-142557-SH, CRALBPL shRNA (h) Lentiviral Particles: sc-77860-V and CRALBPL shRNA (m) Lentiviral Particles: sc-142557-V.

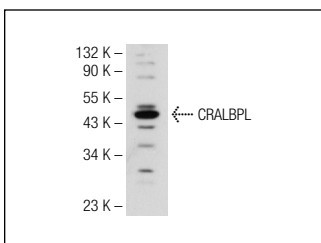
Molecular Weight of CRALBPL: 40 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

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.

DATA



CRALBPL (L-17): sc-87060. Western blot analysis of CRALBPL expression in IMR-32 whole cell lysate.

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.