

LRP2BP (K-13): sc-132741

BACKGROUND

LRP2BP (LRP2-binding protein), also known as MegBP (megalin-binding protein), is a 347 amino acid protein that contains one TPR repeat and 6 Sel1-like repeats. Localized to the plasma membrane and throughout the cytoplasm, LRP2BP interacts with megalin (also known as LRP2) and, via this interaction, is thought to regulate megalin function. Specifically, LRP2BP acts as a scaffold protein that, through its TPR motifs, assists in the sequestration and/or the release of transcription factors that influence megalin's effects on endocytosis and hormone release. LRP2BP is expressed in colon, testis, small intestine and blood leukocytes, as well as in pancreatic adenocarcinoma cells, suggesting a possible role for LRP2BP in carcinogenesis. Two isoforms of LRP2BP exist due to alternative splicing events.

REFERENCES

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7. Mii, A., et al. 2007. Genetic association of low-density lipoprotein receptor-related protein 2 (LRP2) with plasma lipid levels. *J. Atheroscler. Thromb.* 14: 310-316.
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CHROMOSOMAL LOCATION

Genetic locus: LRP2BP (human) mapping to 4q35.1; Lrp2bp (mouse) mapping to 8 B1.1.

SOURCE

LRP2BP (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LRP2BP 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-132741 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LRP2BP (K-13) is recommended for detection of LRP2BP isoforms 1 and 2 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); non cross-reactive with other LRP family members.

LRP2BP (K-13) is also recommended for detection of LRP2BP isoforms 1 and 2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LRP2BP siRNA (h): sc-89287, LRP2BP siRNA (m): sc-149047, LRP2BP shRNA Plasmid (h): sc-89287-SH, LRP2BP shRNA Plasmid (m): sc-149047-SH, LRP2BP shRNA (h) Lentiviral Particles: sc-89287-V and LRP2BP shRNA (m) Lentiviral Particles: sc-149047-V.

Molecular Weight of LRP2BP: 40 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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.