

RIMKLB (T-14): sc-138930

BACKGROUND

RIMKLB (ribosomal modification protein rimK-like family member B), also known as NAAGS (N-acetyl-aspartyl-glutamate synthetase B), β -citryl-glutamate synthase B or FAM80B, is a 386 amino acid cytoplasmic protein that belongs to the rimK family. Acting as the catalyst in the synthesis of β -citryl-glutamate and N-acetyl-aspartyl-glutamate, RIMKLB contains one ATP-grasp domain and exists as two alternatively spliced isoforms. The gene encoding RIMKLB maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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- Forzano, F., et al. 2007. A familial case of achondrogenesis type II caused by a dominant COL2A1 mutation and "patchy" expression in the mosaic father. *Am. J. Med. Genet. A* 143A: 2815-2820.
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CHROMOSOMAL LOCATION

Genetic locus: RIMKLB (human) mapping to 12p13.31; Rimklb (mouse) mapping to 6 F1.

SOURCE

RIMKLB (T-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of RIMKLB 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.

PROTOCOLS

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

PRODUCT

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

Blocking peptide available for competition studies, sc-138930 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RIMKLB (T-14) is recommended for detection of RIMKLB of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with FAM80A.

RIMKLB (T-14) is also recommended for detection of RIMKLB in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for RIMKLB siRNA (h): sc-95697, RIMKLB siRNA (m): sc-140313, RIMKLB shRNA Plasmid (h): sc-95697-SH, RIMKLB shRNA Plasmid (m): sc-140313-SH, RIMKLB shRNA (h) Lentiviral Particles: sc-95697-V and RIMKLB shRNA (m) Lentiviral Particles: sc-140313-V.

Molecular Weight of RIMKLB isoforms: 42/35 kDa.

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) 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.

RESEARCH USE

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