

ACPL2 (K-13): sc-102291



The Power to Question

BACKGROUND

ACPL2 (acid phosphatase-like 2), also known as UNQ370 or PRO706, is a 480 amino acid secreted protein that functions to catalyze the H₂O-dependent conversion of a phosphate monoester to an alcohol and a phosphate. Expressed as two alternatively spliced isoforms, ACPL2 is encoded by a gene that maps to chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

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CHROMOSOMAL LOCATION

Genetic locus: ACPL2 (human) mapping to 3q23; Acpl2 (mouse) mapping to 9 E3.3.

SOURCE

ACPL2 (K-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ACPL2 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-102291 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ACPL2 (K-13) is recommended for detection of ACPL2 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).

Suitable for use as control antibody for ACPL2 siRNA (h): sc-78198, ACPL2 siRNA (m): sc-140823, ACPL2 shRNA Plasmid (h): sc-78198-SH, ACPL2 shRNA Plasmid (m): sc-140823-SH, ACPL2 shRNA (h) Lentiviral Particles: sc-78198-V and ACPL2 shRNA (m) Lentiviral Particles: sc-140823-V.

Molecular Weight of ACPL2: 55 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.

STORAGE

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

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.