

PQLC1 (C-12): sc-85105

BACKGROUND

PQLC1 (PQ-loop repeat-containing protein 1) is a 271 amino acid protein encoded by a gene located on human chromosome 18. Encoding over 300 genes, chromosome 18 contains about 76 million bases. Trisomy 18, or Edwards syndrome, is the second most common trisomy after Down syndrome. Symptoms of Edwards syndrome include low birth weight, a variety of physical development defects, heart deformations and breathing difficulty. Translocation between chromosome 18 and 14 is the most common translocation in cancers, and occurs in follicular lymphomas. Niemann-Pick disease, hereditary hemorrhagic telangiectasia and erythropoietic protoporphyria are associated with chromosome 18. The TGF β modulators, Smad2, Smad4 and Smad7 are encoded by chromosome 18.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PQLC1 (human) mapping to 18q23; Pqlc1 (mouse) mapping to 18 E3.

SOURCE

PQLC1 (C-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of PQLC1 of human origin.

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-85105 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PQLC1 (C-12) is recommended for detection of PQLC1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

PQLC1 (C-12) is also recommended for detection of PQLC1 in additional species, including equine.

Suitable for use as control antibody for PQLC1 siRNA (h): sc-76210, PQLC1 siRNA (m): sc-152431, PQLC1 shRNA Plasmid (h): sc-76210-SH, PQLC1 shRNA Plasmid (m): sc-152431-SH, PQLC1 shRNA (h) Lentiviral Particles: sc-76210-V and PQLC1 shRNA (m) Lentiviral Particles: sc-152431-V.

Molecular Weight (predicted) of PQLC1: 30 kDa.

Molecular Weight (observed) of PQLC1: 25 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

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.

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.