

# Polycystin-L (Q-14): sc-160680

## BACKGROUND

Polycystin-L, also known as PKD2L1 (polycystic kidney disease 2-like 1), PCL, PKDL or PKD2L, is an 805 amino acid multi-pass membrane protein that belongs to the Polycystin family of transmembrane proteins. Expressed in brain, heart, testis, spleen, liver and skeletal muscle, as well as in fetal kidney and liver, Polycystin-L functions as a calcium-regulated cation channel that is permeable to sodium, potassium and calcium and is involved in cell-cell and cell-matrix interactions. Polycystin-L shares 50% amino acid identity with a related family member, Polycystin-2, suggesting that Polycystin-L may be involved in the pathogenesis of polycystic kidney disease. Multiple alternatively spliced isoforms of Polycystin-L exist, all of which are encoded by a gene that maps to human chromosome 10.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PKD2L1 (human) mapping to 10q24.31; Pkd2l1 (mouse) mapping to 19 C3.

## SOURCE

Polycystin-L (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of Polycystin-L of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160680 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Polycystin-L (Q-14) is recommended for detection of Polycystin-L 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 Polycystin-L2.

Polycystin-L (Q-14) is also recommended for detection of Polycystin-L in additional species, including canine and porcine.

Suitable for use as control antibody for Polycystin-L siRNA (h): sc-90835, Polycystin-L siRNA (m): sc-152386, Polycystin-L shRNA Plasmid (h): sc-90835-SH, Polycystin-L shRNA Plasmid (m): sc-152386-SH, Polycystin-L shRNA (h) Lentiviral Particles: sc-90835-V and Polycystin-L shRNA (m) Lentiviral Particles: sc-152386-V.

Molecular Weight of Polycystin-L: 92 kDa.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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](http://www.scbt.com) or our catalog for detailed protocols and support products.