# Polycystin-1L1 (C-14): sc-165259



The Power to Question

#### **BACKGROUND**

Polycystin-1L1, also known as PKD1L1 (polycystic kidney disease 1 like 1), PRO19563 or PC1-like 1 protein, is a 2,849 amino acid multi-pass membrane protein. Belonging to the Polycystin family, Polycystin-1L1 contains 11 transmembrane domains, one GPS domain, 2 lg-like PKD domains, one LH2/polycystin-1, lipoxygenase,  $\alpha$ -toxin (PLAT) domain, one small receptor for egg jelly (REJ) domain and one coiled-coil domain. Encoded by a gene that maps to human chromosome 7p12.3, Polycystin-1L1 contains 58 exons and exists as two alternatively spliced isoforms. Polycystin-1L1 shares significant homology with all known Polycystins, and 61% sequence identity with its mouse homolog. Polycystin-1L1 is expressed in fetal and adult heart and in testis. Polycystin-1L1 is also expressed strongly in Leydig cells, a testosterone production source, and may play a role in the male reproductive system. Defects in the gene encoding Polycystin-1L1 may be associated with Polycystic kidney disease, a progressive disorder characterized by the presence of cysts in the kidneys.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: PKD1L1 (human) mapping to 7p12.3.

# SOURCE

Polycystin-1L1 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of Polycystin-1L1 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 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-165259 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

Polycystin-1L1 (C-14) is recommended for detection of Polycystin-1L1 of human and rat 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-1L2 or Polycystin-1L3.

Polycystin-1L1 (C-14) is also recommended for detection of Polycystin-1L1 in additional species, including equine.

Suitable for use as control antibody for Polycystin-1L1 siRNA (h): sc-89442, Polycystin-1L1 shRNA Plasmid (h): sc-89442-SH and Polycystin-1L1 shRNA (h) Lentiviral Particles: sc-89442-V.

Molecular Weight of Polycystin-1L1 isoforms: 315/284 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™ 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) with UltraCruz™ Mounting Medium: sc-24941.

# **RESEARCH USE**

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

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