SANTA CRUZ BIOTECHNOLOGY, INC.

PKDREJ (H-300): sc-68861

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

PKDREJ (polycystic kidney disease and receptor for egg jelly-related protein) is a 2,253 amino acid multi-pass membrane protein that belongs to the polycystin family and is encoded by an intronless gene. Expressed exclusively in testis, PKDREJ is thought to play a key role in fertilization, possibly by generating a calcium transport channel that is directly associated with the acrosome reaction of the sperm. Human PKDREJ, which can exist as homomultimers or heteromultimers, shares 64% identity with its mouse homolog, suggesting a conserved function between species. PKDREJ contains one receptor for egg jelly (REJ) domain, eleven transmembrane domains, one G protein-coupled receptor proteolytic site (GPS) domain and one lipoxygenase domain. Several isoforms of PKDREJ exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PKDREJ (human) mapping to 22q13.31; Pkdrej (mouse) mapping to 15 E2.

SOURCE

PKDREJ (H-300) is a rabbit polyclonal antibody raised against amino acids 1954-2253 mapping at the C-terminus of PKDREJ of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

PKDREJ (H-300) is recommended for detection of PKDREJ of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

PKDREJ (H-300) is also recommended for detection of PKDREJ in additional species, including canine.

Suitable for use as control antibody for PKDREJ siRNA (h): sc-76157, PKDREJ siRNA (m): sc-76158, PKDREJ shRNA Plasmid (h): sc-76157-SH, PKDREJ shRNA Plasmid (m): sc-76158-SH, PKDREJ shRNA (h) Lentiviral Particles: sc-76157-V and PKDREJ shRNA (m) Lentiviral Particles: sc-76158-V.

Molecular Weight of PKDREJ: 241 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) 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.