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Goat Anti-RPGRIP1L Antibody

Peptide-affinity purified goat antibody

Catalog # AF1944a

Specification

Goat Anti-RPGRIP1L Antibody - Product Information

Application	**WB, E**
Primary Accession	Q68CZ1
Other Accession	NP_056087, 23322
Reactivity	**Human**
Predicted	**Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**151201**

Goat Anti-RPGRIP1L Antibody - Additional Information

Gene ID 23322

Other Names
Protein fantom, Nephrocystin-8, RPGR-interacting protein 1-like protein, RPGRIP1-like protein, RPGRIP1L, FTM, KIAA1005, NPHP8

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-RPGRIP1L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RPGRIP1L Antibody - Protein Information

Name RPGRIP1L

Synonyms FTM, KIAA1005, NPHP8

Function
Negatively regulates signaling through the G-protein coupled thromboxane A2 receptor (TBXA2R) (PubMed:19464661). May be involved in mechanisms like programmed cell death, craniofacial development, patterning of the limbs, and formation of the left-right axis (By similarity). Involved in the organization of apical junctions; the function is proposed to implicate a NPHP1-4-8 module. Does not seem to be strictly required for ciliogenesis (PubMed:19464661). Involved in establishment of planar cell polarity such as in cochlear sensory epithelium and is proposed to implicate stabilization of disheveled proteins (By similarity). Involved in regulation of proteasomal activity at the primary cilium probably implicating association with PSDM2 (By similarity).

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q8CG73, ECO:0000269|PubMed:21685204} Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:Q8CG73}. Cell junction, tight junction {ECO:0000250|UniProtKB:Q8CG73}. Note=In cultured renal cells, it localizes diffusely in the cytoplasm but, as cells approach confluence, it accumulates to basolateral tight junctions. Localizes to the ciliary transition zone. {ECO:0000250|UniProtKB:Q8CG73}

Tissue Location
Ubiquitously expressed with relatively high level of expression in hypothalamus and islet. During early development, expressed in multiple organs including brain, eye, forelimb and kidney

Goat Anti-RPGRIP1L Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-RPGRIP1L Antibody - Images

AF1944a (0.3 µg/ml) staining of Human Brain (Cerebellum) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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Goat Anti-RPGRIP1L Antibody - Background

The protein encoded by this gene can localize to the basal body-centrosome complex or to primary cilia and centrosomes in ciliated cells. The encoded protein has been found to interact with nephrocystin-4. Defects in this gene are a cause of Joubert syndrome type 7 (JBTS7) and Meckel syndrome type 5 (MKS5). Two transcript variants encoding different isoforms have been found for this gene.

Goat Anti-RPGRIP1L Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.
Replication of association between schizophrenia and ZNF804A in the Irish Case-Control Study of Schizophrenia sample. Riley B, et al. Mol Psychiatry, 2010 Jan. PMID 19844207.
Mutations in 3 genes (MKS3, CC2D2A and RPGRIP1L) cause COACH syndrome (Joubert syndrome with congenital hepatic fibrosis). Doherty D, et al. J Med Genet, 2010 Jan. PMID 19574260.
Thromboxane A2-induced signal transduction is negatively regulated by KIAA1005 that directly interacts with thromboxane A2 receptor. Tokue S, et al. Prostaglandins Other Lipid Mediat, 2009 Jun. PMID 19464661.