

RHCG Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3334a

Specification

RHCG Antibody (internal region) - Product Information

Application	WB
Primary Accession	O9UBD6
Other Accession	NP_057405.1 , 51458
Reactivity	Human
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	53179

RHCG Antibody (internal region) - Additional Information

Gene ID 51458

Other Names

Ammonium transporter Rh type C, Rh glycoprotein kidney, Rhesus blood group family type C glycoprotein, Rh family type C glycoprotein, Rh type C glycoprotein, Tumor-related protein DRC2, RHCG, C15orf6, CDRC2, PDRC2, RHGK

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 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

RHCG Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

RHCG Antibody (internal region) - Protein Information

Name RHCG

Synonyms C15orf6, CDRC2, PDRC2, RHGK

Function

Ammonium transporter involved in the maintenance of acid-base homeostasis. Transports ammonium and its related derivative methylammonium across the plasma membrane of epithelial cells likely contributing to renal transepithelial ammonia transport and ammonia metabolism.

Postulated to primarily mediate an electroneutral bidirectional transport of NH₃ ammonia species according to a mechanism that implies interaction of an NH₄(+) ion with acidic residues of the pore entry followed by dissociation of NH₄(+) into NH₃ and H(+). As a result NH₃ transits through the central pore and is protonated on the extracellular side reforming NH₄(+) (PubMed:11062476, PubMed:14761968, PubMed:15929723, PubMed:16477434, PubMed:16580862, PubMed:24077989). May act as a CO₂ channel providing for renal acid secretion (PubMed:24077989).

Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Also detected at the basolateral membrane and in subapical vesicles.

Tissue Location

Expressed in brain, testis, placenta, pancreas, esophagus and prostate. Expressed in squamous epithelial tissues (at protein level). Expressed in kidney.

RHCG Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RHCG Antibody (internal region) - Images



AF3334a (1 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary

incubation was 1 hour. Detected by chemiluminescence.

RHCG Antibody (internal region) - References

Expression of the gas-transporting proteins, Rh B glycoprotein and Rh C glycoprotein, in the murine lung. Han KH, Mekala K, Babida V, Kim HY, Handlogten ME, Verlander JW, Weiner ID, American journal of physiology. Lung cellular and molecular physiology 2009 Jul 297 (1): L153-63. PMID: 19429772