

RHCG Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP19157c**Specification**

RHCG Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9UBD6](#)**RHCG Antibody (Center) Blocking Peptide - 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

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RHCG Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

RHCG Antibody (Center) Blocking Peptide - Images**RHCG Antibody (Center) Blocking Peptide - Background**

RHCG functions as an electroneutral and bidirectional ammonium transporter. May regulate transepithelial ammonia secretion.

RHCG Antibody (Center) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Gruswitz, F., et al. Proc. Natl. Acad. Sci. U.S.A. 107(21):9638-9643(2010)Mouro-Chanteloup, I., et al. PLoS ONE 5 (1), E8921 (2010) :Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Han, K.H., et al. Am. J. Physiol. Lung Cell Mol. Physiol. 297 (1), L153-L163 (2009) :