

**RHCG Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19157c****Specification**

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**RHCG Antibody (Center) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB,E                        |
| Primary Accession | <a href="#">O9UBD6</a>      |
| Other Accession   | <a href="#">NP_057405.1</a> |
| Reactivity        | Human, Mouse                |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit IgG                  |
| Calculated MW     | 53179                       |
| Antigen Region    | 184-213                     |

**RHCG Antibody (Center) - 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

**Target/Specificity**

This RHCG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-213 amino acids from the Central region of human RHCG.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

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

**RHCG Antibody (Center) - 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 NH<sub>3</sub> ammonia species according to a mechanism that implies interaction of an NH<sub>4</sub>(+) ion with acidic residues of the pore entry followed by dissociation of NH<sub>4</sub>(+) into NH<sub>3</sub> and H(+). As a result NH<sub>3</sub> transits through the central pore and is protonated on the extracellular side reforming NH<sub>4</sub>(+) (PubMed:[11062476](#), PubMed:[14761968](#), PubMed:[15929723](#), PubMed:[16477434](#), PubMed:[16580862](#), PubMed:[24077989](#)). May act as a CO<sub>2</sub> 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

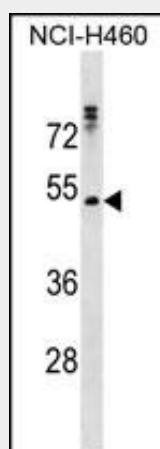
Expressed in brain, testis, placenta, pancreas, esophagus and prostate. Expressed in squamous epithelial tissues (at protein level). Expressed in kidney.

### RHCG Antibody (Center) - Protocols

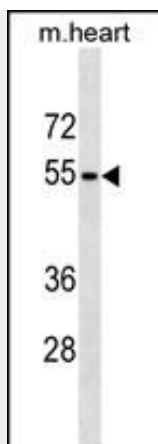
Provided below are standard protocols that you may find useful for product applications.

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

### RHCG Antibody (Center) - Images



RHCG Antibody (Center) (Cat. #AP19157c) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the RHCG antibody detected the RHCG protein (arrow).



RHCG Antibody (Center) (Cat. #AP19157c) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the RHCG antibody detected the RHCG protein (arrow).

#### **RHCG Antibody (Center) - Background**

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

#### **RHCG Antibody (Center) - 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) :