

# RHBG Rabbit pAb

Catalog # AP96317

## Product Information

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| <b>Application</b>                      | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Primary Accession</b>                | <a href="#">Q9H310</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Other Accession</b>                  | <a href="#">Q9H310</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Host</b>                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clonality</b>                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Calculated MW</b>                    | 49481                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Physical State</b>                   | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>                        | KLH conjugated synthetic peptide derived from human RHBG                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Epitope Specificity</b>              | 331-430/441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                           | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Buffer</b>                           | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SIMILARITY</b>                       | Belongs to the ammonium transporter (TC 2.A.49) family. Rh subfamily.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SUBUNIT</b>                          | Interacts (via C-terminus) with ANK2 and ANK3; required for targeting to the basolateral membrane.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Post-translational modifications</b> | N-glycosylated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>DISEASE</b>                          | Fetally expressed by kidney and to a lower extent in liver.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Important Note</b>                   | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Background Descriptions</b>          | This gene encodes one of two non-erythroid members of the Rhesus (Rh) protein family. Non-erythroid Rh protein family members are mainly expressed in the kidney and belong to the methylammonium-ammonium permease/ammonia transporters superfamily. All Rh family proteins are predicted to be transmembrane proteins with 12 membrane spanning domains and intracytoplasmic N- and C-termini. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012] |

## Additional Information

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| <b>Gene ID</b>     | 57127                                                                                                                                                                                                                                                                          |
| <b>Other Names</b> | SLC42A2; RHBG_HUMAN; RHBG; Rhesus blood group family type B glycoprotein (Rh family type B glycoprotein   Rh type B glycoprotein); Rh family B glycoprotein; Rhesus blood group, B glycoprotein; Rh family B glycoprotein (gene/pseudogene); solute carrier family 42 member 2 |
| <b>Dilution</b>    | WB=1:500-2000                                                                                                                                                                                                                                                                  |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                                                                |

## Protein Information

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| <b>Name</b>              | RHBG ( <a href="#">HGNC:14572</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Function</b>          | Ammonium transporter involved in the maintenance of acid-base homeostasis. Transports ammonium and its related derivative methylammonium across the basolateral plasma membrane of epithelial cells likely contributing to renal transepithelial ammonia transport and ammonia metabolism. May transport either NH <sub>4</sub> (+) or NH <sub>3</sub> ammonia species predominantly mediating an electrogenic NH <sub>4</sub> (+) transport (PubMed: <a href="#">15284342</a> , PubMed: <a href="#">15929723</a> , PubMed: <a href="#">24077989</a> ). May act as a CO <sub>2</sub> channel providing for renal acid secretion (PubMed: <a href="#">24077989</a> ). |
| <b>Cellular Location</b> | Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Location</b>   | Specifically expressed in kidney. Also detected in liver and ovary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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