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RHBG Rabbit pAb

Catalog # AP96317

Product Information

Application	WB
Primary Accession	Q9H310
Other Accession	Q9H310
Reactivity	Mouse
Predicted	Rat, Human, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49481
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RHBG
Epitope Specificity	331-430/441
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Basolateral cell membrane. Cytoplasmic vesicle membrane.
SIMILARITY	Belongs to the ammonium transporter (TC 2.A.49) family. Rh subfamily.
SUBUNIT	Interacts (via C-terminus) with ANK2 and ANK3; required for targeting to the basolateral membrane.
Post-translational modifications	N-glycosylated.
DISEASE	Fetally expressed by kidney and to a lower extent in liver.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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

Gene ID	57127
Other Names	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
Target/Specificity	Specifically expressed in kidney. Also detected in liver and ovary.

Dilution	WB=1:500-2000
Storage	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

Name	RHBG (HGNC:14572)
Function	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 NH4(+) or NH3 ammonia species predominantly mediating an electrogenic NH4(+) transport (PubMed:15284342, PubMed:15929723, PubMed:24077989). May act as a CO2 channel providing for renal acid secretion (PubMed:24077989).
Cellular Location	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Specifically expressed in kidney. Also detected in liver and ovary.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.