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RHAG antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI11929

Product Information

Application	WB
Primary Accession	Q02094
Other Accession	NM_000324, NP_000315
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse
Predicted	Human, Rat, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44198

Additional Information

Gene ID	6005
Alias Symbol	RH2, RH50A, Rh50, Rh50 GP, CD241, Rh50GP, SLC42A1
Other Names	Ammonium transporter Rh type A, Erythrocyte membrane glycoprotein Rh50, Erythrocyte plasma membrane 50 kDa glycoprotein, Rh50A, Rhesus blood group family type A glycoprotein, Rh family type A glycoprotein, Rh type A glycoprotein, Rhesus blood group-associated ammonia channel, Rhesus blood group-associated glycoprotein, CD241, RHAG, RH50
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 100 ul of distilled water. Final anti-RHAG antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	RHAG antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RHAG (HGNC:10006)
Synonyms	RH50
Function	Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane (PubMed:35835865). Heterotrimer with RHCE (RHAG)2(RHCE), that transports ammonium and its related derivative methylammonium, in both neutral and ionic forms, across the erythrocyte membrane (PubMed:11062476, PubMed:11861637,

PubMed:15572441, PubMed:15856280, PubMed:19273840, PubMed:21849667, PubMed:22012326, PubMed:24077989, PubMed:26354748). The transport of NH4(+) is electrogenic and masks the NH3 transport (PubMed:26354748). Also, may act as a CO2 channel (PubMed:17712059, PubMed:19273840, PubMed:24077989). In vitro, leaks monovalent cations (PubMed:18931342, PubMed:21849667). Moreover in erythrocyte, regulates RHD membrane expression (PubMed:12130520) and is associated with rhesus blood group antigen expression (PubMed:12130520, PubMed:19744193).

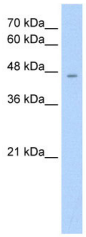
Cellular Location

Membrane; Multi-pass membrane protein Note=Localization at the plasma membrane is regulated by ANK1

Tissue Location

Erythrocytes.

Images



WB Suggested Anti-RHAG Antibody Titration: 1.25µg/ml
Positive Control: HepG2 cell lysate

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