

CD241 Polyclonal Antibody

Catalog # AP73467

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q02094
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44198

Additional Information

Gene ID	6005
Other Names	RHAG; RH50; 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
Dilution	WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

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

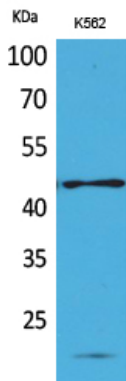
Tissue Location

Erythrocytes.

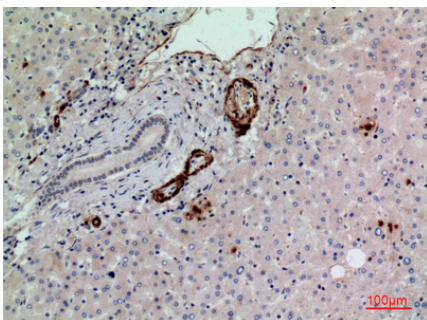
Background

Associated with rhesus blood group antigen expression (PubMed: [19744193](#)). May be part of an oligomeric complex which is likely to have a transport or channel function in the erythrocyte membrane (PubMed:[11062476](#), PubMed:[11861637](#)). Involved in ammonia transport across the erythrocyte membrane (PubMed:[21849667](#), PubMed:[22012326](#)). Seems to act in monovalent cation transport (PubMed:[18931342](#), PubMed:[21849667](#)).

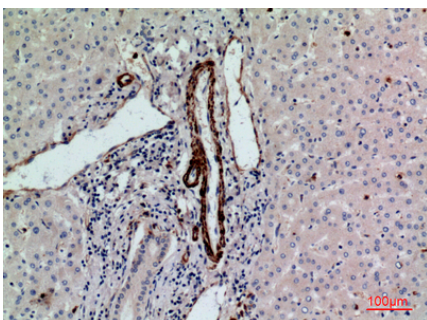
Images



Western Blot analysis of K562 cells using CD241 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

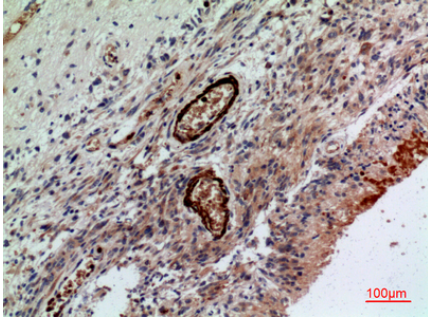
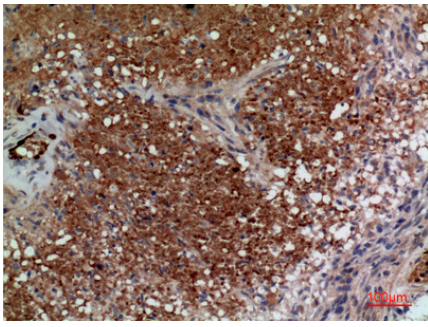


Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

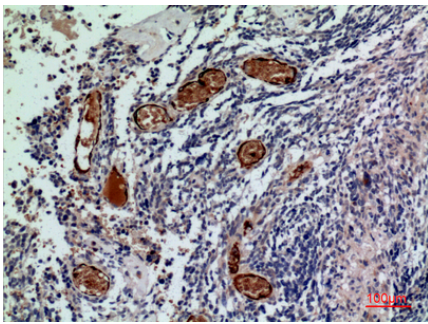


Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100

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