10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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℃

Protein Information

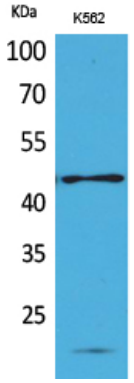
Name	RHAG (HGNC:10006)
Synonyms	RH50
Function	Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane (PubMed:35835865). Heterotrimer with RHCE (RHAG)2(RHCE), that transports ammonium and its related derivative methylammonium, in both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

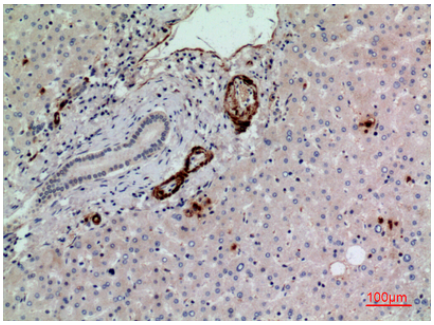
Background

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).

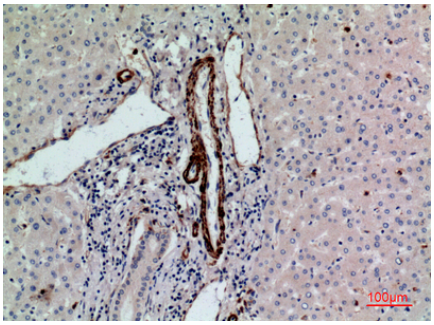
Images



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

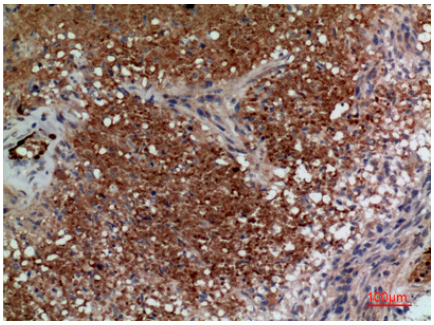


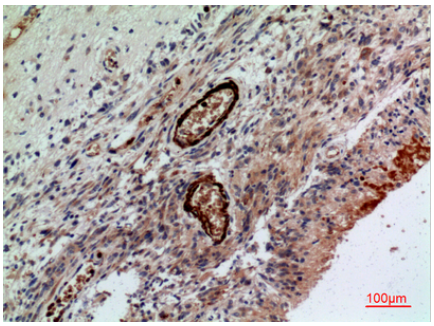
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



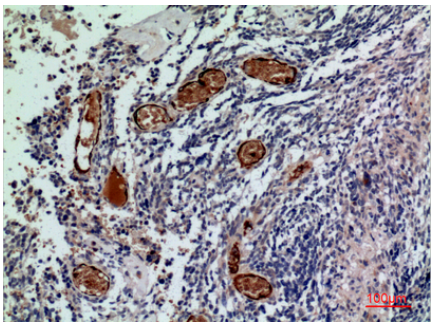
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

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'.