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# CD241 Polyclonal Antibody

Catalog # AP73467

## Product Information

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

## Additional Information

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| **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

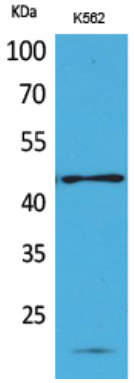
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| **Name** | RHAG ( HGNC:10006) |
| **Synonyms** | RH50 |
| **Function** | Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane (PubMed:35835865). Heterotrimer with RHCE (RHAG)2(RHCE), 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 |

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| | 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. |

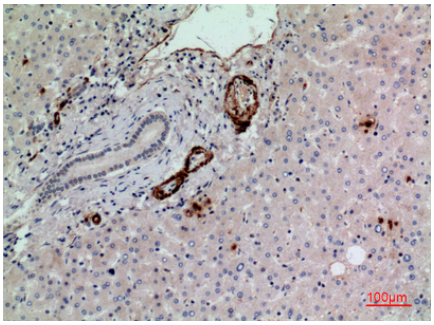
## Background

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).

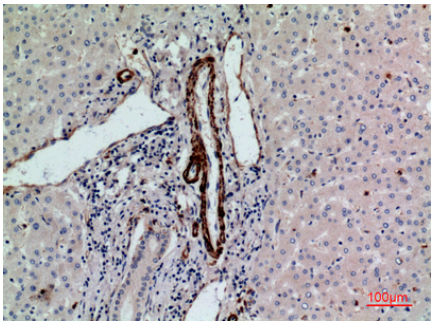
## Images




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

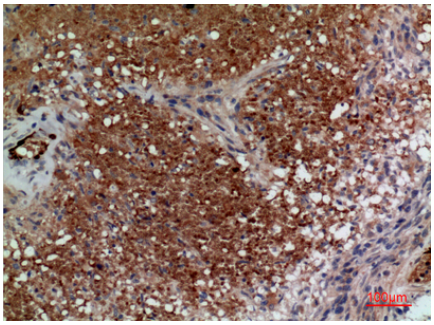


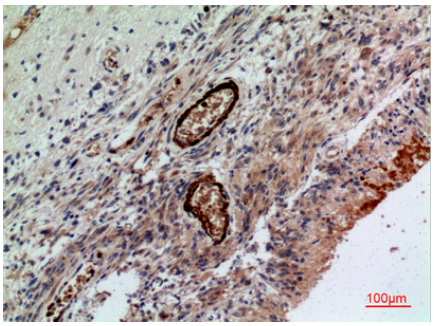

Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



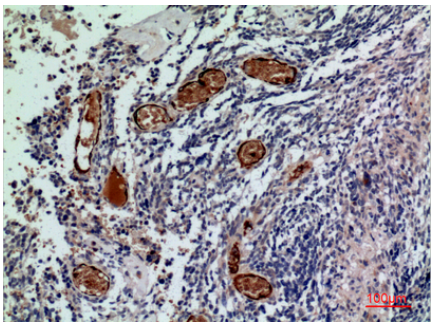

Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

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

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