

Datasheet for ABIN7551366
RHAG Protein (AA 1-409) (His tag)



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Overview

Quantity:	1 mg
Target:	RHAG
Protein Characteristics:	AA 1-409
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RHAG protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RHAG Protein expressed in mammalian cells.
Sequence:	MRFTFPLMAI VLEIAMIVLF GLFVEYETDQ TVLEQLNITK PTDMGIFFEL YPLFQDVHVM IFVGFGLMT FLKKYGFSSV GINLLVAALG LQWGTIVQGI LQSQGQKFNI GIKNMINADF SAATVLISFG AVLGKTSPTQ MLIMTILEIV FFAHNEYLVS EIFKASDIGA SMTIHAFGAY FGLAVAGILY RSGLRKGHEN EESAYYSDLF AMIGTLFLWM FWPSFNSAIA EPGDKQCRAI VNTYFSLAAC VLTAFAFSSL VEHRGKLNMV HIQNATLAGG VAVGTCADMA IHPFGSMIIG SIAGMVSVLG YKFLTPLFTT KLRIHDTCGV HNLHGLPGVV GGLAGIVAVA MGASNTSMAM QAAALGSSIG TAVVGGLMTG LILKLPLWGQ PSDQNCYDDS VYWKVPKTR Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

RHAG

Alternative Name:

RHAG ([RHAG Products](#))

Background:

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) (CD antigen CD241),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:11861637, PubMed:11062476, PubMed:15856280, PubMed:19273840, PubMed:21849667, PubMed:22012326, PubMed:24077989, PubMed:15572441, PubMed:26354748). The transport of NH4(+) is electrogenic and masks the NH3 transport (PubMed:26354748). Also, may act as a CO2 channel (PubMed:19273840, PubMed:17712059, PubMed:24077989). In vitro, leaks monovalent cations (PubMed:18931342, PubMed:21849667). Moreover in erythrocyte,

Target Details

regulates RHD membrane expression (PubMed:12130520) and is associated with rhesus blood group antigen expression (PubMed:19744193, PubMed:12130520).

{ECO:0000269|PubMed:11062476, ECO:0000269|PubMed:11861637, ECO:0000269|PubMed:12130520, ECO:0000269|PubMed:15572441, ECO:0000269|PubMed:15856280, ECO:0000269|PubMed:17712059, ECO:0000269|PubMed:18931342, ECO:0000269|PubMed:19273840, ECO:0000269|PubMed:19744193, ECO:0000269|PubMed:21849667, ECO:0000269|PubMed:22012326, ECO:0000269|PubMed:24077989, ECO:0000269|PubMed:26354748, ECO:0000269|PubMed:35835865}.

Molecular Weight: 44.2 kDa

UniProt: [Q02094](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months