

Datasheet for ABIN7551538
RRAGA Protein (AA 1-313) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	RRAGA
Protein Characteristics:	AA 1-313
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RRAGA protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat RRAGA Protein expressed in mammalien cells.
Sequence:	MPNTAMKKKV LLMGKSGSGK TSMRSIFAN YIARDTRRLG ATIDVEHSHV RFLGNLVLNL WDCGGQDTFM ENYFTSQRDN IFRNVEVLIY VFDVESRELE KDMHYYSQSL EAILQNSPDA KIFCLVHKMD LVQEDQRDLI FKEREEDLRR LSRPLECACF RTSIWDETLY KAWSSIVYQL IPNVQQLMN LRNFAQIIEA DEVLLEFRAT FLVISHYQCK EQRDVHRFEK ISNIIKQFKL SCSKLAASFQ SMEVRNSNFA AFIDIFTSNT YVMVMSDPS IPSAATLINI RNARKHFEKL ERVDGPKHSL LMR 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.

Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.
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Product Details

- 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, Western Blot
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Grade:	custom-made
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Target Details

Target:	RRAGA
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Alternative Name:	RRAGA (RRAGA Products)
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Background:	Ras-related GTP-binding protein A (Rag A) (RagA) (EC 3.6.5.-) (Adenovirus E3 14.7 kDa-interacting protein 1) (FIP-1),FUNCTION: Guanine nucleotide-binding protein that plays a crucial role in the cellular response to amino acid availability through regulation of the mTORC1 signaling cascade (PubMed:20381137, PubMed:24095279, PubMed:25936802, PubMed:31601764, PubMed:31601708). Forms heterodimeric Rag complexes with RagC/RRAGC or RagD/RRAGD and cycles between an inactive GDP-bound and an active GTP-bound form: RagA/RRAGA is in its active form when GTP-bound RagA/RRAGA forms a complex with GDP-bound RagC/RRAGC (or RagD/RRAGD) and in an inactive form when GDP-bound RagA/RRAGA heterodimerizes with GTP-bound RagC/RRAGC (or RagD/RRAGD) (PubMed:20381137, PubMed:24095279, PubMed:25936802, PubMed:32868926, PubMed:31601764, PubMed:31601708). In its GTP-bound active form, promotes the recruitment of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB (PubMed:20381137, PubMed:25936802, PubMed:31601764, PubMed:31601708). Involved in the RCC1/Ran-GTPase pathway (PubMed:9394008). May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death (PubMed:8995684).
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Target Details

{ECO:0000269|PubMed:20381137, ECO:0000269|PubMed:24095279, ECO:0000269|PubMed:25936802, ECO:0000269|PubMed:31601708, ECO:0000269|PubMed:31601764, ECO:0000269|PubMed:32868926, ECO:0000269|PubMed:8995684, ECO:0000269|PubMed:9394008}., FUNCTION: (Microbial infection) May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby affecting cell death. {ECO:0000269|PubMed:8995684}.

Molecular Weight: 36.6 kDa

UniProt: [Q7L523](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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