

Datasheet for ABIN7551561
RRAGB Protein (AA 1-374) (His tag)



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Overview

Quantity: 1 mg

Target: RRAGB

Protein Characteristics: AA 1-374

Origin: Human

Source: HEK-293 Cells

Protein Type: Recombinant

Purification tag / Conjugate: This RRAGB protein is labelled with His tag.

Application: Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose: Custom-made recombinat RRAGB Protein expressed in mammalien cells.

Sequence: MEESDSEKTT EKENLGPRMD PPLGEPEGSL GWVLPNTAMK KKVLLMGKSG SGKTSMRSII
FANYIARDTR RLGATILDRI HSLQINSSLS TYSLVDSVGN TKTFDVEHSH VRFLGNLVLN
LWDCGGQDTF MENYFTSQRD NIFRNVEVLI YVFDVESREL EKDMHYYQSC LEAILQNSPD
AKIFCLVHKM DLVQEDQRDL IFKEREEDLR RLSRPLECSC FRTSIWDETL YKAWSSIVYQ
LIPNVQLEM NLRNFAEII ADEVLLFERA TFLVISHYQC KEQRDAHRFE KISNIIKQFK
LSCSKLAASF QSMEVRNSNF AAFIDIFTSN TYVMVVMSSDP SIPSAATLIN IRNARKHFEK
LERVDGPKQC LLMR **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:

Product Details

- 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, Western Blot

Grade: custom-made

Target Details

Target: RRAGB

Alternative Name: RRAGB ([RRAGB Products](#))

Background: Ras-related GTP-binding protein B (Rag B) (RagB) (EC 3.6.5.-),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:18497260, PubMed:20381137, PubMed:23723238, PubMed:24095279). Forms heterodimeric Rag complexes with RagC/RRAGC or RagD/RRAGD and cycles between an inactive GDP-bound and an active GTP-bound form: RagB/RRAGB is in its active form when GTP-bound RagB/RRAGB forms a complex with GDP-bound RagC/RRAGC (or RagD/RRAGD) and in an inactive form when GDP-bound RagB/RRAGB heterodimerizes with GTP-bound RagC/RRAGC (or RagD/RRAGD) (PubMed:18497260, PubMed:20381137, PubMed:23723238, PubMed:24095279). In its GTP-bound active form, promotes the recruitment of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB (PubMed:18497260, PubMed:20381137, PubMed:23723238). Involved in the RCC1/Ran-GTPase pathway (PubMed:9394008).
{ECO:0000269|PubMed:18497260, ECO:0000269|PubMed:20381137, ECO:0000269|PubMed:23723238, ECO:0000269|PubMed:24095279,

Target Details

ECO:0000269|PubMed:9394008}.

Molecular Weight: 43.3 kDa

UniProt: [Q5VZM2](#)

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