

# Recombinant Human RRAGA Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** RRAGA-3143H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	RRAGA MS Standard C13 and N15-labeled recombinant protein (NP_006561) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Guanine nucleotide-binding protein that plays a crucial role in the cellular response to amino acid availability through regulation of the mTORC1 signaling cascade. Forms heterodimeric Rag complexes with RRAGC or RRAGD and cycles between an inactive GDP-bound and an active GTP-bound form. In its active form participates in the relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death.
<b>Molecular Mass</b>	36.6 kDa
<b>AA Sequence</b>	MPNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATIDVEHSHVRFGLNLVNLWDCGGQDTFMENYFTSQRDNIFRNVEVLIYVFDVESRELEKDMHYYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKEREEDLRRLSRPLECACFRTSIWDETLYKAWSSIVYQLIPNVQQLEMNLRNFAQIIEADEVLLFERATFLVISHYQCKEQRDVHRFEKISNIIKQFKLSCSKLAASFQSMEVNRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPKHSLLMRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

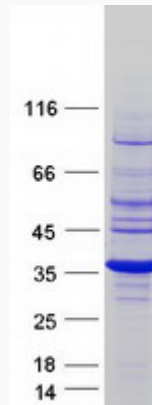
<b>Gene Name</b>	RRAGA Ras-related GTP binding A [ Homo sapiens (human) ]
<b>Official Symbol</b>	RRAGA
<b>Synonyms</b>	RRAGA; Ras-related GTP binding A; FIP1; RAGA; FIP-1; ras-related GTP-binding protein A; adenovirus E3 14.7 kDa-interacting protein 1; adenovirus E3-14.7K interacting protein 1; rag A
<b>Gene ID</b>	10670
<b>mRNA Refseq</b>	NM_006570
<b>Protein Refseq</b>	NP_006561
<b>MIM</b>	612194
<b>UniProt ID</b>	Q7L523

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**SDS-PAGE**



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