

RRAGA Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI16124**Specification**

RRAGA Antibody - C-terminal region - Product Information

Application	WB
Primary Accession	O7L523
Other Accession	NP_006561
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34kDa KDa

RRAGA Antibody - C-terminal region - Additional Information**Gene ID** 10670**Alias Symbol** RRAGA,**Other Names**

Ras-related GTP-binding protein A, Rag A, RagA, Adenovirus E3 14.7 kDa-interacting protein 1, FIP-1, RRAGA (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=16963 target="_blank">HGNC:16963)

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 µl of distilled water. Final Anti-RRAGA antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

RRAGA Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

RRAGA Antibody - C-terminal region - Protein Information**Name** RRAGA ([HGNC:16963](#))**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](http://www.uniprot.org/citations/20381137), PubMed:[24095279](http://www.uniprot.org/citations/24095279), PubMed:[25936802](http://www.uniprot.org/citations/25936802), PubMed:[31601764](http://www.uniprot.org/citations/31601764), PubMed:[31601708](http://www.uniprot.org/citations/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).

Cellular Location

Cytoplasm. Nucleus. Lysosome membrane Note=Predominantly cytoplasmic (PubMed:8995684, PubMed:9394008) Recruited to the lysosome surface by the Ragulator complex (PubMed:20381137, PubMed:28935770, PubMed:29158492). May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state (PubMed:8995684, PubMed:9394008). Colocalizes in vivo with adenovirus E3-14.7K mainly to the cytoplasm especially near the nuclear membrane and in discrete foci on or near the plasma membrane (PubMed:8995684).

Tissue Location

Ubiquitously expressed with highest levels of expression in skeletal muscle, heart, and brain

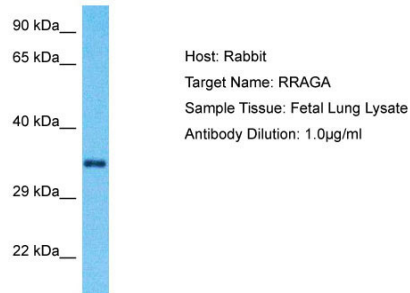
RRAGA Antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RRAGA Antibody - C-terminal region - Images





Host: Rabbit
Target Name: RRAGA
Sample Tissue: Fetal Lung lysates
Antibody Dilution: 1µg/ml

RRAGA Antibody - C-terminal region - Background

Guanine nucleotide-binding protein forming heterodimeric Rag complexes required for the amino acid-induced relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. This is a crucial step in the activation of the TOR signaling cascade by amino acids. Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death. May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby affecting cell death.

RRAGA Antibody - C-terminal region - References

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