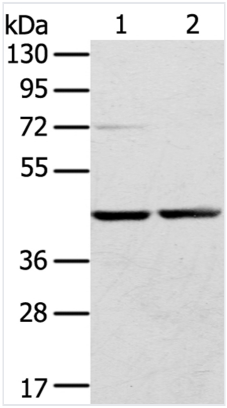
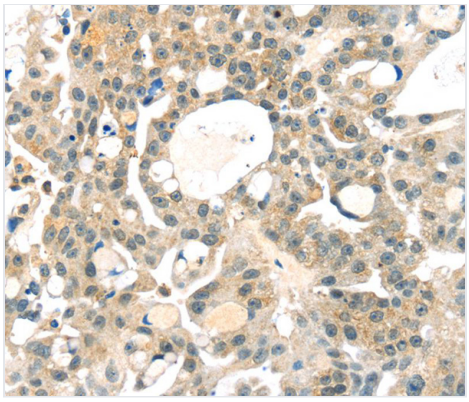
RRAGA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RRAGA, Polyclonal Antibody
Full Product Name	RRAGA Antibody
Product Gene Name	anti-RRAGA antibody
Product Synonym Names	FIP1; RAGA; FIP-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	1.3 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total RRAGA protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	36,566 Da
OMIM	612194
3D Structure	ModBase 3D Structure for Q7L523
Immunogen Type	Protein
Immunogen Description	Full length fusion protein
Target Name	RRAGA
Product Categories/Family for anti-RRAGA antibody	Total protein Ab
Applications Tested/Suitable for anti-RRAGA antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-RRAGA antibody	Western blotting: 1:500-1:2000 Immunohistochemistry: 1:25-1:100
Related Product Information for anti-RRAGA antibody	Ras-related GTP-binding protein A is a protein that in humans is encoded by the RRAGAgene. 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.
Other Notes	Small volumes of anti-RRAGA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RRAGA purchase	MBS9407493 is an antibody targeting RRAGA. Also known as RRAGA Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Testing Data of anti-RRAGA antibody
Gel: 8%SDS-PAGE Lysates (from left to right): Hepg2 and hela cellAmount of lysate: 40ug per lane Primary antibody: 1/400 dilution Secondary antibody dilution: 1/8000Exposure time: 3 seconds



Immunohistochemistry (IHC) of anti-RRAGA antibody
Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue using at dilution 1/25.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RRAGA. It may not necessarily be applicable to this product.

NCBI GI #	5729999
NCBI GeneID	10670
NCBI Accession #	NP_006561.1
UniProt Primary Accession #	Q7L523
UniProt Secondary Accession #	O00290; Q15347; B2R7L1
UniProt Related Accession #	Q7L523
GenBank Nucleotide #	NM_006570.4
NCBI Official Full Name	ras-related GTP-binding protein A
NCBI Official Synonym Full Names	Ras-related GTP binding A
NCBI Official Symbol	RRAGA
NCBI Official Synonym Symbols	FIP1; RAGA; FIP-1
UniProt Protein Name	Ras-related GTP-binding protein A
UniProt Synonym Protein Names	Adenovirus E3 14.7 kDa-interacting protein 1
UniProt Gene Name	RRAGA
UniProt Synonym Gene Names	RagA
UniProt Entry Name	RRAGA_HUMAN
NCBI Protein Information	ras-related GTP-binding protein A

UniProt Comments for RRAGA	RRAGA: Has guanine nucleotide-binding activity but undetectable intrinsic GTPase activity. 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. Can occur as a homodimer, or form a heterodimer with RRAGC or RRAGD in a sequence-independent manner. Binds GTP. The GTP-bound form of RRAGA interacts with NOL8. Interacts with adenovirus E3 14.7 kDa protein. Ubiquitously expressed with highest levels of expression in skeletal muscle, heart, and brain. Belongs to the GTR/RAG GTP-binding protein family. Protein type: G protein regulator, misc. Chromosomal Location of Human Ortholog: 9p22.1 Cellular Component: Golgi apparatus; intracellular membrane-bound organelle; lysosomal membrane; lysosome; cytoplasm; nucleus Molecular Function: GTPase activity; protein binding; protein homodimerization activity; GDP binding; GTP binding; protein heterodimerization activity; phosphoprotein binding Biological Process: cell death; metabolic process; apoptosis; virus-host interaction; regulation of autophagy; positive regulation of cytolysis; cellular response to starvation; positive regulation of TOR signaling pathway
Research Articles on RRAGA	**1.** A mechanism for regulation of mTORC1 signaling by RNF152-mediated K63-linked polyubiquitination of RagA.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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