

Rabbit anti-Human, mouse RRAGD Polyclonal Antibody | anti-RRAGD antibody

RRAGD Antibody (Center)

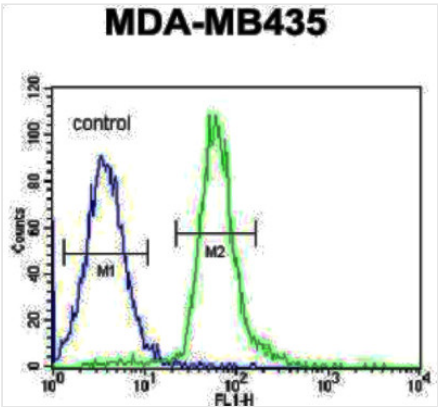
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283875	Rabbit	Human, mouse	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

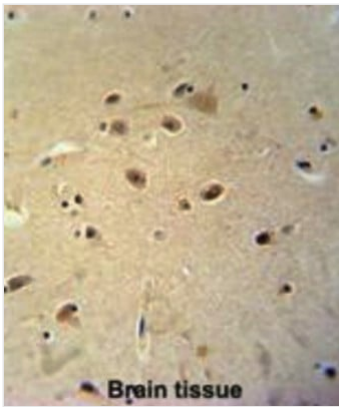
RRAGD; Polyclonal Antibody; RRAGD Antibody (Center); Ras-related GTP-binding protein D; Rag D; RagD; RRAGD HGNC:19903; anti-RRAGD antibody

PRODUCT SPECIFICATIONS

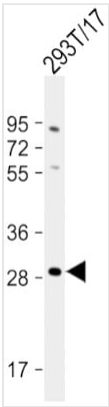
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This RRAGD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 171-199 amino acids from the Central region of human RRAGD.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	171-199
Sequence Length	249
Applicable Applications for anti-RRAGD antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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). Forms heterodimeric Rag complexes with RRAGA or RRAGB and cycles between an inactive GTP-bound and an active GDP-bound form (PubMed:24095279). In its active form participates in the relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB (PubMed:20381137, PubMed:24095279). This is a crucial step in the activation of the TOR signaling cascade by amino acids (PubMed:20381137, PubMed:24095279).
Cellular Location	Cytoplasm. Nucleus. Lysosome Note=Predominantly cytoplasmic. May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state of associated RRAGA (PubMed:11073942).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



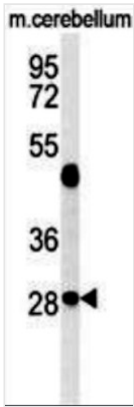
FCM/FACS (Flow Cytometry)
RRAGD Antibody (Center) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



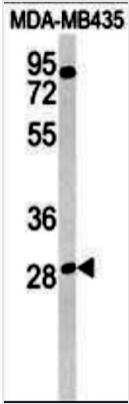
IHC (Immunohistochemistry)
RRAGD Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RRAGD Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Anti-RRAGD Antibody (Center) at 1:1000 dilution + 293T/17 whole cell lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
Western blot analysis of RRAGD Antibody (Center) in mouse cerebellum tissue lysates (35 µg/lane). RRAGD (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of RRAGD Antibody (Center) in MDA-MB435 cell line lysates (35 µg/lane). RRAGD (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-RRAGD antibody	RRAGD is a monomeric guanine nucleotide-binding protein, or G protein. By binding GTP or GDP, small G proteins act as molecular switches in numerous cell processes and signaling pathways.
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Product Categories/Family for anti-RRAGD antibody	Signal Transduction
References	Olsen, J.V., et al. Cell 127(3):635-648(2006) de Wit, N.J., et al. Br. J. Cancer 92(12):2249-2261(2005) Sekiguchi, T., et al. J. Biol. Chem. 279(9):8343-8350(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	11034847
NCBI GeneID	58528
NCBI Accession #	NP_067067.1
NCBI GenBank Nucleotide #	NM_021244.4
UniProt Accession #	Q9NQL2; Q7L8F9; Q9NPG0; A8K184
Molecular Weight	45588
NCBI Official Full Name	ras-related GTP-binding protein D
NCBI Official Synonym Full Names	Ras-related GTP binding D
NCBI Official Symbol	RRAGD
NCBI Official Synonym Symbols	RAGD; bA11D8.2.1
NCBI Protein Information	ras-related GTP-binding protein D
UniProt Protein Name	Ras-related GTP-binding protein D
UniProt Gene Name	RRAGD
UniProt Synonym Gene Names	Rag D; RagD
UniProt Entry Name	RRAGD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/rragd-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/283875>