

Product datasheet for **AR09078PU-L**

RAB5A / RAB5 (1-215) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	RAB5A / RAB5 (1-215) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MASRGATRPN GPNTGNKICQ FKLVLGESA VGKSSLVLRV VKGQFHEFQE STIGAAFLTQ TVCLDDTTVK FEIWDTAGQE RYHSLAPMYR RGAQAIVVY DITNEESFAR AKNWVKELQR QASPNIVIAL SGNKADLANK RAVDFQEAQS YADDNSLLFM ETSAKTSMNV NEIFMAIAKK LPKNEPQNPG ANSARGRGVD LTEPTQPTRN QCCSN
Concentration:	lot specific
Purity:	≥95 by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris pH 8.0
Preparation:	Liquid purified protein
Protein Description:	Recombinant human Rab5a was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001278977
Locus ID:	5868
UniProt ID:	P20339
Cytogenetics:	3p24.3
Synonyms:	RAB5



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Summary:

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes (PubMed:10818110, PubMed:14617813, PubMed:16410077, PubMed:15378032). Contributes to the regulation of filopodia extension (PubMed:14978216). Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (PubMed:22660413). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity).[UniProtKB/Swiss-Prot Function]

Protein Families:

Druggable Genome

Protein Pathways:

Amyotrophic lateral sclerosis (ALS), Endocytosis

Product images: