RAB5 Polyclonal Antibody Cy3 Conjugated

Catalog No: #C06263Cy3

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Description

Product Name	RAB5 Polyclonal Antibody Cy3 Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide derived from human RAB5.
Conjugates	Cy3
Target Name	RAB5
Other Names	RAB 5; RAB 5A; RAB5A; RAB5A member RAS oncogene family; RAB5A_HUMAN; RAS associated protein RAB5A; Ras related protein Rab 5A; Ras-related protein Rab-5A.
Accession No.	NCBI Gene ID:5868
Uniprot	P20339
GeneID	5868;
Excitation Emission	512,550nm 570,615nm
Cell Localization	Cytoplasm
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

IF=1:50-200

Background

Rab5-related subfamily. This subfamily includes Rab5 and Rab22 of mammals, Ypt51 Ypt52 Ypt53 of yeast, and RabF of plants. The members of this subfamily are involved in endocytosis and endocytic-sorting pathways. In mammals, Rab5 GTPases localize to early endosomes and regulate fusion of clathrin-coated vesicles to early endosomes and fusion between early endosomes. In yeast, Ypt51p family members similarly regulate membrane trafficking through prevacuolar compartments. GTPase activating proteins (GAPs) interact with GTP-bound Rab and accelerate the hydrolysis of GTP to GDP. Guanine nucleotide exchange factors (GEFs) interact with GDP-bound Rabs to promote the formation of the GTP-bound state. Rabs are further regulated by guanine nucleotide dissociation inhibitors (GDIs), which facilitate Rab recycling by masking C-terminal lipid binding and promoting cytosolic localization. Most Rab GTPases contain a lipid modification site at the C-terminus, with sequence motifs CC, CXC, or CCX. Lipid binding is essential for membrane attachment, a key feature of most Rab proteins. Due to the presence of truncated sequences in this CD, the lipid modification site is not available for annotation.

Note: This product is for in vitro research use only