



RAB7B Rabbit mAb

Catalog No	YP-rAb-17428
Isotype	IgG
Reactivity	Human,Mouse
Applications	WB,IHC,FC
Gene Name	RAB7B
Protein Name	Ras-related protein Rab-7b
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; FC 1:100-1:500; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	
Observed Band	22kD
Calculated Molecular Weight	22kD
Cell Pathway	SUBCELLULAR LOCATION: Late endosome {ECO:0000269 PubMed:20375062}. Lysosome {ECO:0000269 PubMed:15144907, ECO:0000269 PubMed:20375062}. Golgi apparatus {ECO:0000269 PubMed:20375062}. Golgi apparatus, trans-Golgi network {ECO:0000269 PubMed:20375062}. Cytoplasmic vesicle, phagosome {ECO:0000269 PubMed:21255211}. Cytoplasmic vesicle, phagosome membrane {ECO:0000305}; Lipid-anchor {ECO:0000305}; Cytoplasmic side {ECO:0000305}. Note=Recruited to phagosomes containing S.aureus or M.tuberculosis. {ECO:0000269 PubMed:21255211}.
Tissue Specificity	TISSUE SPECIFICITY: Expressed in heart, placenta, lung, skeletal muscle and peripheral blood leukocyte. {ECO:0000269 PubMed:15144907}.
Function	Controls vesicular trafficking from endosomes to the trans-Golgi network (TGN). Acts as a negative regulator of TLR9 signaling and can suppress TLR9-triggered TNFA, IL6, and IFNB production in macrophages by promoting TLR9 lysosomal degradation. Also negatively regulates TLR4 signaling in macrophages by promoting lysosomal degradation of TLR4. Promotes megakaryocytic differentiation by increasing NF-kappa-B-dependent IL6 production and

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subsequently enhancing the association of STAT3 with GATA1. Not involved in the regulation of the EGF- and EGFR degradation pathway. {ECO:0000269|PubMed:20375062, ECO:0000269|PubMed:20953574}.

Background

Predicted to enable GTP binding activity and GTPase activity. Involved in late endosome to Golgi transport; positive regulation of megakaryocyte differentiation; and regulation of gene expression. Located in cytoplasmic vesicle; lysosome; and trans-Golgi network. [provided by Alliance of Genome Resources, Apr 2025]

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Western blot analysis of lysates from HEK293 cell, primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody was diluted at 1:10000, 37° 1hour.

