Rab7 Rabbit pAb

CatalogNo: YN4183

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 23kD (Calculated)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human RAB7A AA range: 84-134
Specificity	This antibody detects endogenous levels of RAB7A at Human/Mouse/Rat

Target Information

Gene name	RAB7A RAB7

Protein Name RAB7A

Organism	Gene ID	UniProt ID
Human	7879;	P51149;
Mouse	19349;	P51150;
Rat	29448;	P09527;

Cellular Localization Cytoplasmic vesicle , phagosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Late endosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Lysosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Melanosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Cytoplasmic vesicle , autophagosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Lipid droplet . Endosome membrane ; Peripheral membrane protein . Cytoplasmic vesicle . Mitochondrion membrane ; Peripheral membrane protein . Colocalizes with OSBPL1A at the late endosome (PubMed:16176980) . Found in the ruffled border (a late endosomal-like compartment in the plasma membrane) of bone-resorbing osteoclasts. Recruited to phagosomes containing S.aureus or Mycobacterium (PubMed:21255211) . Lipid droplet localization is increased upon ADRB2 stimulation (By similarity) . Recruited to damaged mitochondria during mitophagy in a RIMOC1-dependent manner (PubMed:34432599) . .

Tissue specificity Widely expressed; high expression found in skeletal muscle.

Function Disease:Defects in RAB7A are the cause of Charcot-Marie-Tooth disease type 2B (CMT2B) [MIM:600882]; also known as hereditary motor and sensory neuropathy II (HMSN2) . CMT2B is a form of Charcot-Marie-Tooth disease , the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1 , and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT2 group are characterized by signs of axonal regeneration in the absence of obvious myelin alterations , normal or slightly reduced nerve conduction velocities , and progressive distal muscle weakness and atrophy. CMT2B is clinically characterized by marked distal muscle weakness and a high frequency of foot ulcers , infections and amputations of the toes. CMT2B inheritance is autosomal dominant. ,Function:Involved in late endocytic transport. Contributes to the maturation of phagosomes (acidification) . ,sequence Caution:Wrong choice of frame. ,similarity:Belongs to the small GTPase superfamily. Rab family. ,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV. ,subunit:Interacts with RILP. ,tissue specificity:Widely expressed; high expression found in skeletal muscle. ,

Validation Data

Contact information

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