Best Tools for immunology Research

RAB7A rabbit pAb

Catalog No :	YN4183
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	RAB7A
Fields :	>>Mitophagy - animal;>>Autophagy - animal;>>Endocytosis;>>Phagosome;>>Salmonella infection;>>Amoebiasis;>>Tuberculosis
Gene Name :	RAB7A RAB7
Protein Name :	RAB7A
Human Gene Id :	7879
Human Swiss Prot No :	P51149
Mouse Gene Id :	19349
Mouse Swiss Prot No :	P51150
Rat Gene Id :	29448
Rat Swiss Prot No :	P09527
Immunogen :	Synthesized peptide derived from human RAB7A AA range: 84-134
Specificity :	This antibody detects endogenous levels of RAB7A at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1□500-2000

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 23kD

Background : RAB family members are small, RAS-related GTP-binding proteins that are important regulators of vesicular transport. Each RAB protein targets multiple proteins that act in exocytic / endocytic pathways. This gene encodes a RAB family member that regulates vesicle traffic in the late endosomes and also from late endosomes to lysosomes. This encoded protein is also involved in the cellular vacuolation of the VacA cytotoxin of Helicobacter pylori. Mutations at highly conserved amino acid residues in this gene have caused some forms of Charcot-Marie-Tooth (CMT) type 2 neuropathies. [provided by RefSeq, Jul 2008],

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 in

Subcellular Location : 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:21255

Expression : Widely expressed; high expression found in skeletal muscle.

Products Images