

Rab11 (PT0823R) PT™ Rabbit mAb

CatalogNo: YM8582 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

MW

- 24kD (Calculated)
24kD (Observed)

Isotype

- IgG, Kappa

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:1000-1:5000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

Basic Information

Clonality Monoclonal

Clone Number PT0823R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Endogenous

| Target Information

Gene name RAB11A,RAB11B

Protein Name Ras-related protein Rab-11A,Rab-11,YL8,Ras-related protein Rab-11B

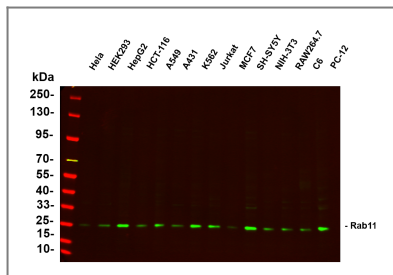
Organism	Gene ID	UniProt ID
Human	8766 ; 9230 ;	P62491 ; Q15907 ;
Mouse	53869 ; 19326 ;	P62492 ; P46638 ;
Rat	53869 ; 79434 ;	P62494 ; O35509 ;

Cellular Localization Cell membrane ; Lipid-anchor . Recycling endosome membrane ; Lipid-anchor . Cleavage furrow . Cytoplasmic vesicle , phagosome . Cytoplasmic vesicle membrane . Translocates with RAB11FIP2 from the vesicles of the endocytic recycling compartment (ERC) to the plasma membrane (PubMed:11994279) . Localizes to the cleavage furrow (PubMed:15601896) . Colocalizes with PARD3 , PRKCI , EXOC5 , OCLN , PODXL and RAB8A in apical membrane initiation sites (AMIS) during the generation of apical surface and lumenogenesis (PubMed:20890297) . Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211) . Recycling endosome membrane ; Lipid-anchor ; Cytoplasmic side . Cytoplasmic vesicle , secretory vesicle , synaptic vesicle membrane ; Lipid-anchor ; Cytoplasmic side . Cytoplasmic vesicle , phagosome membrane ; Lipid-anchor ; Cytoplasmic side . Recruited to phagosomes containing S.aureus.

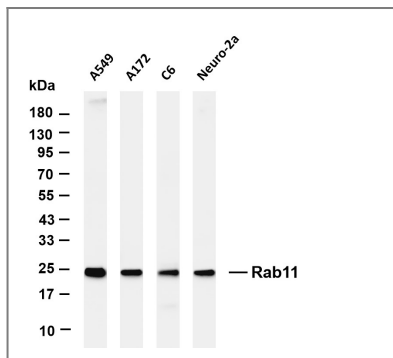
Tissue specificity Expressed in esophagus squamous epithelium and 208 other cell types or tissues;B-cell lymphoma ,Brain ,Cerebellum ,Muscle ,

Function Regulates endocytic recycling. May exert its functions by interacting with multiple effector proteins in different complexes. Acts as a major regulator of membrane delivery during cytokinesis. Together with MYO5B and RAB8A participates in epithelial cell polarization. Together with RAB3IP , RAB8A , the exocyst complex , PARD3 , PRKCI , ANXA2 , CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS) , apical surface formation and lumenogenesis (By similarity) . Together with MYO5B participates in CFTR trafficking to the plasma membrane and TF (Transferrin) recycling in nonpolarized cells. Required in a complex with MYO5B and RAB11FIP2 for the transport of NPC1L1 to the plasma membrane. Participates in the sorting and basolateral transport of CDH1 from the Golgi apparatus to the plasma membrane. Regulates the recycling of FCGRT (receptor of Fc region of monomeric Ig G) to basolateral membranes.

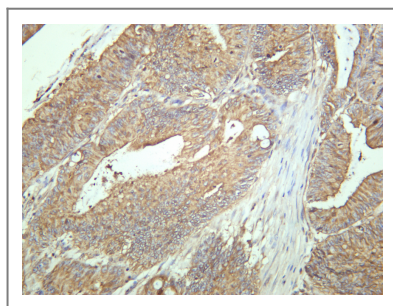
| Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HeLa - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Rab11 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: A172 Lane 3: C6 Lane 4: Neuro-2a Predicted band size: 24kDa Observed band size: 24kDa



Human colon carcinoma was stained with anti-Rab11 rabbit antibody

Contact information

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PT™ Rabbit mAb