

Datasheet for ABIN7167379
anti-RAB7A antibody (AA 110-177) (FITC)



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Overview

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|----------------------|-------------------------------------------|
| Quantity: | 100 µg |
| Target: | RAB7A |
| Binding Specificity: | AA 110-177 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This RAB7A antibody is conjugated to FITC |
| Application: | Please inquire |

Product Details

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|-------------------|------------------------------------------------------------------|
| Immunogen: | Recombinant Human Ras-related protein Rab-7a protein (110-177AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

Target Details

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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target: | RAB7A |
| Alternative Name: | RAB7A (RAB7A Products) |
| Background: | Background: Key regulator in endo-lysosomal trafficking. Governs early-to-late endosomal maturation, microtubule minus-end as well as plus-end directed endosomal migration and |

Target Details

positioning, and endosome-lysosome transport through different protein-protein interaction cascades. Plays a central role, not only in endosomal traffic, but also in many other cellular and physiological events, such as growth-factor-mediated cell signaling, nutrient-transporter mediated nutrient uptake, neurotrophin transport in the axons of neurons and lipid metabolism. Also involved in regulation of some specialized endosomal membrane trafficking, such as maturation of melanosomes, pathogen-induced phagosomes (or vacuoles) and autophagosomes. Plays a role in the maturation and acidification of phagosomes that engulf pathogens, such as *S.aureus* and *M.tuberculosis*. Plays a role in the fusion of phagosomes with lysosomes. Plays important roles in microbial pathogen infection and survival, as well as in participating in the life cycle of viruses. Microbial pathogens possess survival strategies governed by RAB7A, sometimes by employing RAB7A function (e.g. *Salmonella*) and sometimes by excluding RAB7A function (e.g. *Mycobacterium*). In concert with RAC1, plays a role in regulating the formation of RBs (ruffled borders) in osteoclasts. Controls the endosomal trafficking and neurite outgrowth signaling of NTRK1/TRKA (PubMed:11179213, PubMed:12944476, PubMed:14617358, PubMed:20028791, PubMed:21255211). Regulates the endocytic trafficking of the EGF-EGFR complex by regulating its lysosomal degradation. Involved in the ADRB2-stimulated lipolysis through lipophagy, a cytosolic lipase-independent autophagic pathway (By similarity). Required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413).

Aliases: CMT2B antibody, PRO2706 antibody, PSN antibody, RAB7, member RAS oncogene family antibody, RAB7A antibody, RAB7A, member RAS oncogene family antibody, RAB7A_HUMAN antibody, Ras associated protein RAB7 antibody, Ras related protein Rab7 antibody, Ras related protein Rab7a antibody, Ras-related protein Rab-7a antibody

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| UniProt: | P51149 |
| Pathways: | EGFR Signaling Pathway , Maintenance of Protein Location , SARS-CoV-2 Protein Interactome |

Application Details

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| Restrictions: | For Research Use only |
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Handling

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| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4 |

Handling

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|--------------------|-------------------------------------------------------------------------------------------------------------------|
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |