

**Product Name: RAB7 (3N18) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16799**

---

## Summary

<b>Production Name</b>	RAB7 (3N18) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	RAB7A
<b>Alternative Names</b>	CMT2B; PRO2706; PSN; RAB7, member RAS oncogene family; RAB7A; RAB7A, member RAS oncogene family; Ras associated protein RAB7; Ras related protein Rab7a;
<b>Gene ID</b>	7879.0
<b>SwissProt ID</b>	P51149.A synthetic peptide of human RAB7

## Application

<b>Dilution Ratio</b>	WB: 1:1000-1:5000
<b>Molecular Weight</b>	24kDa

**Product Name: RAB7 (3N18) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16799**

---

## Background

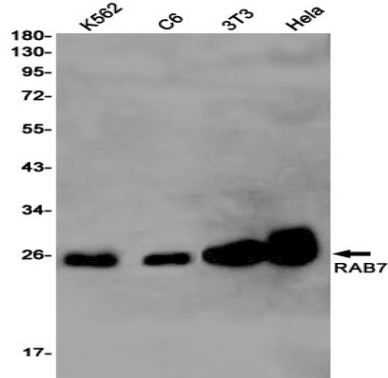
Plays a role in the fusion of phagosomes with lysosomes. Plays important roles in microbial pathogen infection and survival, as well as in participating in the life cycle of viruses. Microbial pathogens possess survival strategies governed by RAB7A, sometimes by employing RAB7A function (e.g. Salmonella) and sometimes by excluding RAB7A function. Small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins playing a key role in the regulation of endo- lysosomal trafficking. Governs early-to-late endosomal maturation, microtubule minus-end as well as plus-end directed endosomal migration and 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:<a href="http://www.uniprot.org/citations/11179213" target="\_blank">11179213</a>, PubMed:<a href="http://www.uniprot.org/citations/12944476" target="\_blank">12944476</a>, PubMed:<a href="http://www.uniprot.org/citations/14617358" target="\_blank">14617358</a>, PubMed:<a href="http://www.uniprot.org/citations/20028791" target="\_blank">20028791</a>, PubMed:<a href="http://www.uniprot.org/citations/21255211" target="\_blank">21255211</a>). 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:<a href="http://www.uniprot.org/citations/22660413" target="\_blank">22660413</a>). Required for vesicular trafficking and cell surface expression of ACE2 (PubMed:<a href="http://www.uniprot.org/citations/33147445" target="\_blank">33147445</a>). May play a role in PRPH neuronal intermediate filament assembly (By similarity).

## Research Area

## Image Data

**Product Name: RAB7 (3N18) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16799**

---



Western blot detection of RAB7 in K562,C6,3T3,HeLa cell lysates using RAB7 antibody(1:1000 diluted).

### **Note**

For research use only.