

Product datasheet for TA385109M

RAB7 (RAB7A) Rabbit Monoclonal Antibody [Clone ID: R07-8G1]

Product data:

| Product Type: | Primary Antibodies |
|-------------------------|------------------------------------------------------------------------------------------|
| Clone Name: | R07-8G1 |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | WB: 1/1000-1/5000 IHC: 1/20-1/50 ICC/IF: 1/20-1/100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| lsotype: | lgG |
| Clonality: | Monoclonal |
| Immunogen: | A synthetic peptide of human RAB7 |
| Formulation: | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA |
| Concentration: | lot specific |
| Purification: | Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Stability: | 1 year |
| Predicted Protein Size: | Calculated MW: 24 kDa; Observed MW: 24 kDa |
| Gene Name: | RAB7A, member RAS oncogene family |
| Database Link: | <u>Entrez Gene 7879 Human</u> <u>P51149</u> |

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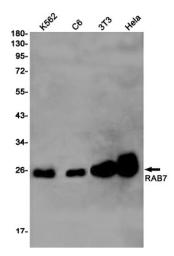
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Background: Swiss-Prot Acc.P51149.Key regulator in endo-lysosomal trafficking. Governs early-to-late endosomal maturation, microtubule minus-end as well as plus-end directed endosomal migration and positioning, and endosome-lysosome transport through different proteinprotein 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-transportor 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. Required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413).

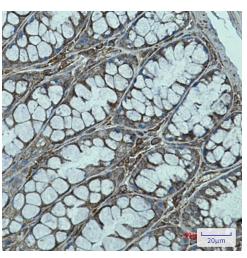
Synonyms:

FLJ20819; PRO2706; RAB7

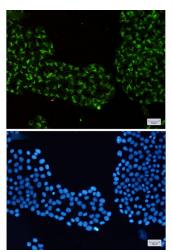
Product images:



Western blot analysis of RAB7 in K562, C6, 3T3, Hela lysates using RAB7 antibody.

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Immunohistochemistry analysis of paraffinembedded mouse colon using Rab7 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of RAB7(green) in Hela cells using RAB7 antibody,and DAPI(blue)

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