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RAB5A / RAB5 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS16510

Specification

RAB5A / RAB5 Antibody (C-Terminus) - Product Information

Application	**WB, IF, IHC**
Primary Accession	P20339
Reactivity	**Human, Mouse, Rat, Monkey, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**24kDa KDa**

RAB5A / RAB5 Antibody (C-Terminus) - Additional Information

Gene ID 5868

Other Names
Ras-related protein Rab-5A, RAB5A, RAB5

Target/Specificity
Detects total Rab5 protein in the following human, rat and mouse whole cell lysates and transfected cells with GFP-Rab5a, GFP-Rab5b and GFP-Rab5c cds by Western blot.

Reconstitution & Storage
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions
RAB5A / RAB5 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

RAB5A / RAB5 Antibody (C-Terminus) - Protein Information

Name RAB5A

Synonyms RAB5

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 to regulate cellular responses such as of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Active GTP-bound form is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes (PubMed:10818110, PubMed:14617813, PubMed:16410077, PubMed:15378032). Contributes

to the regulation of filopodia extension (PubMed:14978216). Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (PubMed:22660413). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity).

Cellular Location
Cell membrane; Lipid-anchor; Cytoplasmic side. Early endosome membrane; Lipid- anchor. Melanosome. Cytoplasmic vesicle. Cell projection, ruffle {ECO:0000250|UniProtKB:P18066}. Membrane Cytoplasm, cytosol. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:Q9CQD1}. Endosome membrane Note=Enriched in stage I melanosomes (PubMed:17081065). Alternates between membrane-bound and cytosolic forms (Probable) {ECO:0000269|PubMed:17081065, ECO:0000305}

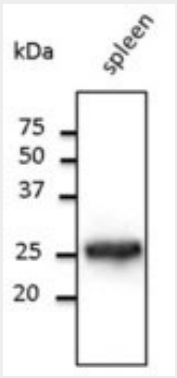
Volume
50 µl

RAB5A / RAB5 Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

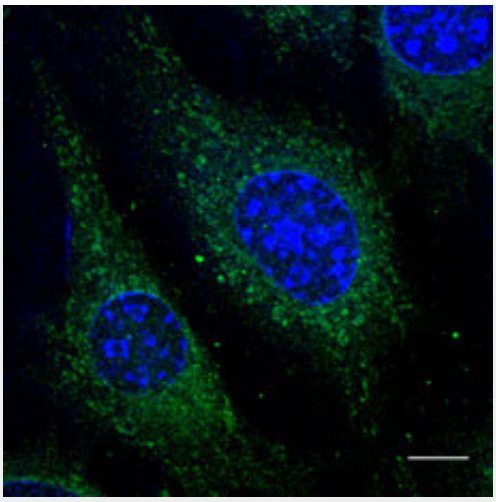
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RAB5A / RAB5 Antibody (C-Terminus) - Images

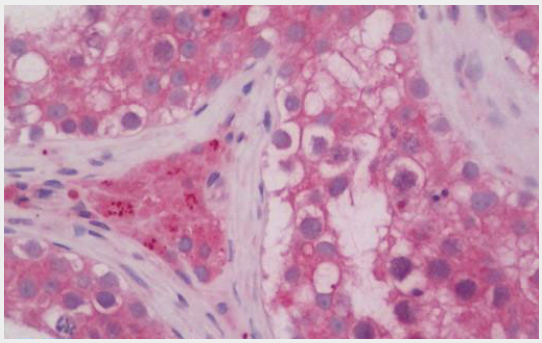


Western blot.

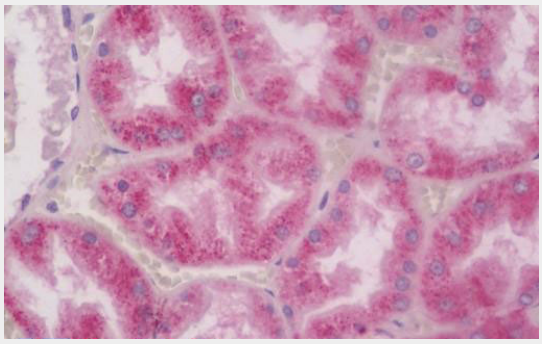
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Immunofluorescence - anti-Rab5 antibody using B6-RPE07 cells at 1:50 dilution.



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)

RAB5A / RAB5 Antibody (C-Terminus) - Background

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes. Contributes to the regulation of filopodia extension.