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Rab5a antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14626

Specification

Rab5a antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q9CQD1
Other Accession	NM_025887, NP_080163
Reactivity	**Human, Mouse, Rat, Rabbit, Sheep, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Pig, Chicken, Sheep, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**24kDa KDa**

Rab5a antibody - C-terminal region - Additional Information

Gene ID 271457

Alias Symbol	**2410015H04Rik, AI663973, AU021172**

Other Names
Ras-related protein Rab-5A, Rab5a, nnyRab5a

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-Rab5a antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
Rab5a antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Rab5a antibody - C-terminal region - Protein Information

Name Rab5a

Synonyms nnyRab5a

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. Contributes to the regulation of filopodia extension. Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (By similarity). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (PubMed:18425118).

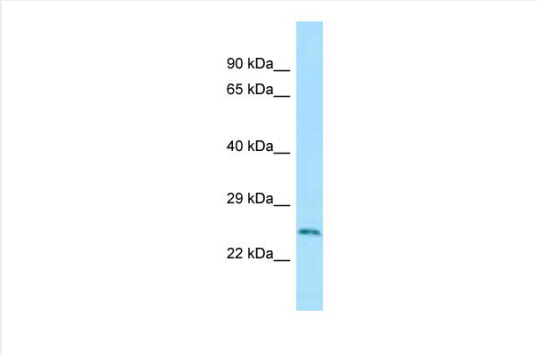
Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P20339}; Lipid-anchor {ECO:0000250|UniProtKB:P20339}; Cytoplasmic side {ECO:0000250|UniProtKB:P18066}. Early endosome membrane {ECO:0000250|UniProtKB:P20339}; Lipid-anchor {ECO:0000250|UniProtKB:P20339}. Melanosome. Cytoplasmic vesicle {ECO:0000250|UniProtKB:P20339}. Cell projection, ruffle {ECO:0000250|UniProtKB:P18066}. Membrane {ECO:0000250|UniProtKB:P20339}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:P20339}. Cytoplasmic vesicle, phagosome membrane. Endosome membrane {ECO:0000250|UniProtKB:P20339}. Note=Enriched in stage I melanosomes Alternates between membrane-bound and cytosolic forms {ECO:0000250|UniProtKB:P20339}

Rab5a antibody - C-terminal region - 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 antibody - C-terminal region - Images



WB Suggested Anti-Rab5a Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Small Intestine

Rab5a antibody - C-terminal region - References

Kuroda T.S.,et al.J. Biol. Chem. 277:9212-9218(2002).
Itoh T.,et al.Genes Cells 11:1023-1037(2006).
Carninci P.,et al.Science 309:1559-1563(2005).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Lubec G.,et al.Submitted (APR-2007) to UniProtKB.