

**Rab5a antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14627****Specification**

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**Rab5a antibody - middle region - Product Information**

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Application       | WB                                                                    |
| Primary Accession | <a href="#">O9COD1</a>                                                |
| Other Accession   | <a href="#">NM_025887</a> , <a href="#">NP_080163</a>                 |
| Reactivity        | Human, Mouse, Rat, Rabbit, Pig, 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 - middle region - Additional Information****Gene ID** 271457

|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| Alias Symbol                                | 2410015H04Rik, AI663973, AU021172 |
| <b>Other Names</b>                          |                                   |
| 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 - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**Rab5a antibody - middle region - Protein Information****Name** Rab5a {ECO:0000312|MGI:MGI:105926}**Synonyms** nnyRab5a**Function**

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. 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:<a href="http://www.uniprot.org/citations/18425118" target="\_blank">18425118</a>).

#### Cellular Location

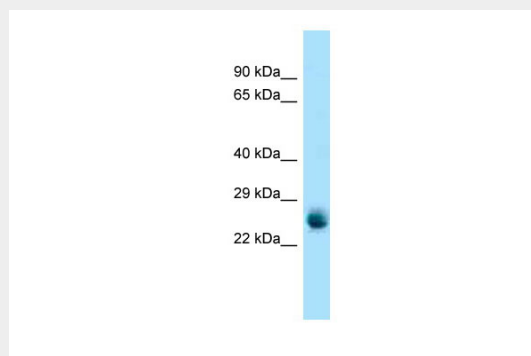
Cell membrane {ECO:0000250|UniProtKB:P20339}; Lipid-anchor {ECO:0000250|UniProtKB:P20339}; Cytoplasmic side {ECO:0000250|UniProtKB:P18066}. Early endosome membrane {ECO:0000250|UniProtKB:P20339}; Lipid-anchor {ECO:0000250|UniProtKB:P20339}. Melanosome. Cytoplasmic vesicle {ECO:0000250|UniProtKB:P20339}. 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 - middle 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 Cytometry](#)
- [Cell Culture](#)

#### Rab5a antibody - middle region - Images



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

#### Rab5a antibody - middle 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.