

**Rab23 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14021****Specification**

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**Rab23 antibody - middle region - Product Information**

Application	WB
Primary Accession	<a href="#">P35288</a>
Other Accession	<a href="#">NM_008999</a> , <a href="#">NP_033025</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted Host	Human, Mouse, Rat, Chicken, Bovine, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 26kDa KDa

**Rab23 antibody - middle region - Additional Information**

Alias Symbol **AW545388, opb, opb2**

**Other Names**

Ras-related protein Rab-23, Protein open brain, Rab-15, Rab23, Opb

**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-Rab23 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**

Rab23 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**Rab23 antibody - middle region - Protein Information**

**Name** Rab23

**Synonyms** Opb

**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 set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). Plays a role in autophagic vacuole assembly, and mediates defense against pathogens, such as *S.aureus*, by promoting their capture by autophagosomes that then merge with lysosomes (By similarity). Together with SUFU, prevents nuclear import of GLI1, and thereby inhibits GLI1 transcription factor activity. Regulates GLI1 in differentiating chondrocytes. Likewise,

regulates GLI3 proteolytic processing and modulates GLI2 and GLI3 transcription factor activity.

#### **Cellular Location**

Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm Endosome membrane. Cytoplasmic vesicle, autophagosome {ECO:0000250|UniProtKB:Q9ULC3}. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle, phagosome membrane; Lipid-anchor; Cytoplasmic side. Note=Recruited to phagosomes containing S.aureus or Mycobacterium. {ECO:0000250|UniProtKB:Q9ULC3}

#### **Tissue Location**

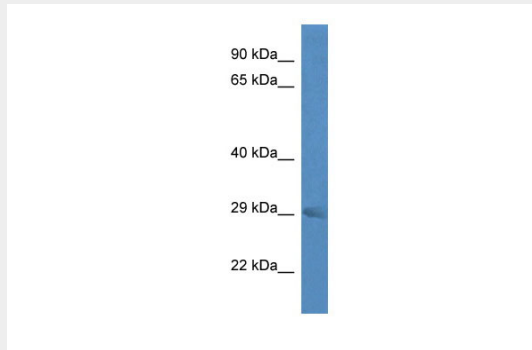
Detected in brain neurons (at protein level). Forebrain and midbrain.

### **Rab23 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](#)

### **Rab23 antibody - middle region - Images**



WB Suggested Anti-Rab23 Antibody Titration: 1.0 µg/ml

Positive Control: Mouse Brain

### **Rab23 antibody - middle region - References**

Olkkonen V.M.,et al.Gene 138:207-211(1994).  
Chavrier P.,et al.Gene 112:261-264(1992).  
Gunther T.,et al.Development 120:3119-3130(1994).  
Eggenchwiler J.T.,et al.Dev. Biol. 227:648-660(2000).  
Eggenchwiler J.T.,et al.Nature 412:194-198(2001).