

**RAB32 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5040**

**Specification**

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**RAB32 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q13637</a>
Other Accession	<a href="#">NP_006825.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=25 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**RAB32 Antibody (N-term) - Additional Information**

**Gene ID** 10981

**Antigen Region**  
2-28

**Other Names**  
RAB32; Ras-related protein Rab-32

**Dilution**  
WB~~1:1000

**Target/Specificity**  
This RAB32 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-28 amino acids from the N-terminal region of human RAB32.

**Format**  
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**  
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**  
RAB32 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RAB32 Antibody (N-term) - Protein Information**

**Name** RAB32

### Function

Acts as an A-kinase anchoring protein by binding to the type II regulatory subunit of protein kinase A and anchoring it to the mitochondrion. Also involved in synchronization of mitochondrial fission (PubMed:<a href="http://www.uniprot.org/citations/12186851" target="\_blank">12186851</a>). Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and M.tuberculosis (PubMed:<a href="http://www.uniprot.org/citations/21255211" target="\_blank">21255211</a>). Plays an important role in the control of melanin production and melanosome biogenesis (PubMed:<a href="http://www.uniprot.org/citations/23084991" target="\_blank">23084991</a>). In concert with RAB38, regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity). Stimulates phosphorylation of RAB10 'Thr-73' by LRRK2 (PubMed:<a href="http://www.uniprot.org/citations/38127736" target="\_blank">38127736</a>).

### Cellular Location

Mitochondrion. Mitochondrion outer membrane; Lipid-anchor. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle, phagosome membrane; Lipid-anchor; Cytoplasmic side. Melanosome {ECO:0000250|UniProtKB:Q9CZE3}. Melanosome membrane. Note=Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211). The BLOC-3 complex, a heterodimer of HPS1 and HPS4 promotes its membrane localization (PubMed:23084991).

### Tissue Location

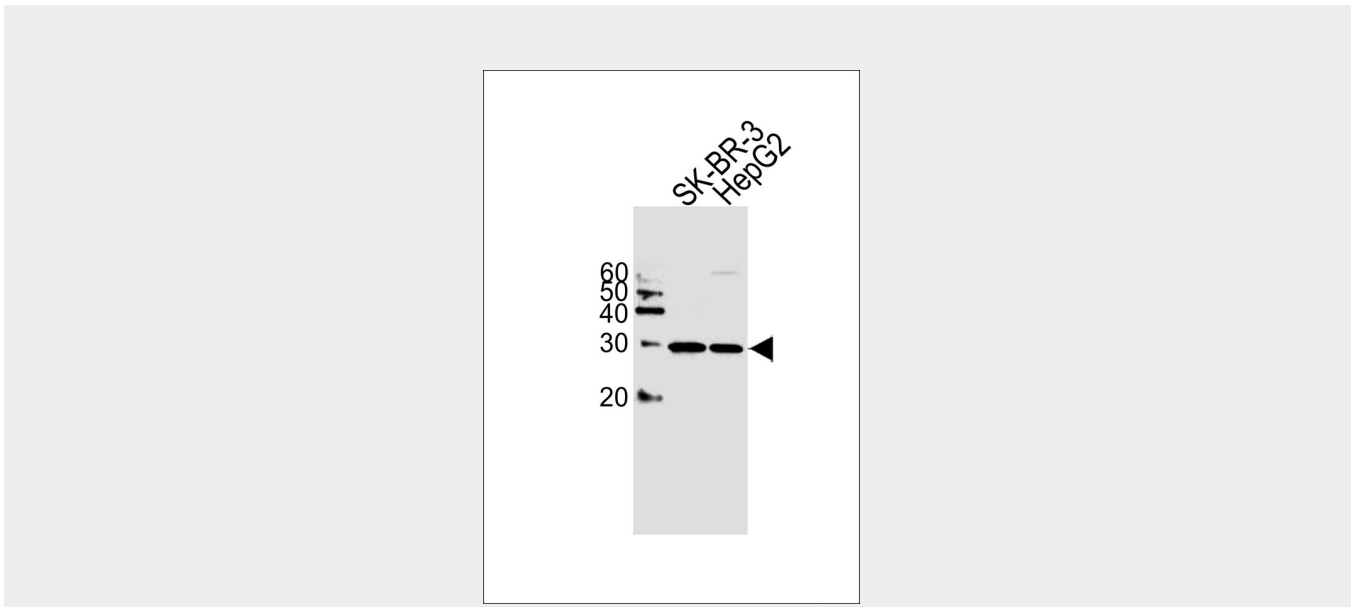
Widely expressed with high levels in heart, liver, kidney, bone marrow, testis, colon and fetal lung

### RAB32 Antibody (N-term) - 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](#)

### RAB32 Antibody (N-term) - Images



Western blot analysis of lysates from SK-BR-3, HepG2 cell line (from left to right), using RAB32 Antibody (N-term)(Cat. #AW5040). AW5040 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

#### **RAB32 Antibody (N-term) - Background**

Small GTP-binding proteins of the RAB family, such as RAB32, play essential roles in vesicle and granule targeting (Bao et al., 2002 [PubMed 11784320]).

#### **RAB32 Antibody (N-term) - References**

Hirota, Y., et al. Cell. Mol. Life Sci. 66(17):2913-2932(2009)  
Shibata, D., et al. Int. J. Cancer 119(4):801-806(2006)  
Mungall, A.J., et al. Nature 425(6960):805-811(2003)  
Alto, N.M., et al. J. Cell Biol. 158(4):659-668(2002)  
Bao, X., et al. Eur. J. Biochem. 269(1):259-271(2002)