

**KD-Validated Anti-RAB10 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI2263****Specification****KD-Validated Anti-RAB10 Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P61026</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 23 kDa; observed, 20 kDa kDa
Gene Name	RAB10
Aliases	RAB10; RAB10, Member RAS Oncogene Family; Ras-Related GTP-Binding Protein; Ras-Related Protein Rab-10; GTP-Binding Protein RAB10; EC 3.6.5.2
Immunogen	Recombinant protein of human RAB10

**KD-Validated Anti-RAB10 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	10890
<b>Other Names</b>	
Ras-related protein Rab-10, 3.6.5.2, RAB10 ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9759" target="_blank">http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9759</a> )	
target="_blank">HGNC:9759</a>)	

**KD-Validated Anti-RAB10 Rabbit Monoclonal Antibody - Protein Information****Name** RAB10 ([HGNC:9759](#))**Function**

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:[21248164](http://www.uniprot.org/citations/21248164)). 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 (PubMed:[21248164](http://www.uniprot.org/citations/21248164)). That Rab is mainly involved in the biosynthetic transport of proteins from the Golgi to the plasma membrane (PubMed:[21248164](http://www.uniprot.org/citations/21248164)). Regulates, for instance, SLC2A4/GLUT4 glucose transporter-enriched vesicles delivery to the plasma membrane (By similarity). In parallel, it regulates the transport of TLR4, a toll-like receptor to the plasma membrane and therefore may be important for innate immune response (By similarity). Also plays a specific role in asymmetric protein transport to the plasma membrane (PubMed:[16641372](http://www.uniprot.org/citations/16641372)). In neurons, it is involved in axonogenesis through regulation of vesicular membrane trafficking toward the axonal plasma membrane (By similarity). In epithelial cells, it regulates transport from the Golgi to

the basolateral membrane (PubMed:<a href="http://www.uniprot.org/citations/16641372" target="\_blank">16641372</a>). May play a role in the basolateral recycling pathway and in phagosome maturation (By similarity). May play a role in endoplasmic reticulum dynamics and morphology controlling tubulation along microtubules and tubules fusion (PubMed:<a href="http://www.uniprot.org/citations/23263280" target="\_blank">23263280</a>). Together with LRRK2, RAB8A, and RILPL1, it regulates ciliogenesis (PubMed:<a href="http://www.uniprot.org/citations/30398148" target="\_blank">30398148</a>). When phosphorylated by LRRK2 on Thr-73, binds RILPL1 and inhibits ciliogenesis (PubMed:<a href="http://www.uniprot.org/citations/30398148" target="\_blank">30398148</a>). Participates in the export of a subset of neosynthesized proteins through a Rab8- Rab10-Rab11-dependent endosomal export route (PubMed:<a href="http://www.uniprot.org/citations/32344433" target="\_blank">32344433</a>). Targeted to and stabilized on stressed lysosomes through LRRK2 phosphorylation where it promotes the extracellular release of lysosomal content through EHBP1 and EHNP1L1 effector proteins (PubMed:<a href="http://www.uniprot.org/citations/30209220" target="\_blank">30209220</a>).

### Cellular Location

Cytoplasmic vesicle membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:P24409}. Endosome membrane Recycling endosome membrane {ECO:0000250|UniProtKB:P24409}. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:P24409}. Cytoplasm, cytoskeleton, cilium basal body. Endoplasmic reticulum membrane. Cytoplasm, perinuclear region. Lysosome. Note=Associates with SLC2A4/GLUT4 storage vesicles (PubMed:22908308). Localizes to the base of the cilium when phosphorylated by LRRK2 on Thr-73 (PubMed:20576682, PubMed:30398148). Transiently associates with phagosomes (By similarity). Localizes to the endoplasmic reticulum at domains of new tubule growth (PubMed:23263280). Colocalizes with MICAL1, GRAF1/ARHGAP26 and GRAF2/ARHGAP10 on endosomal tubules (PubMed:32344433). Localizes to enlarged lysosomes through LRRK2 phosphorylation (PubMed:30209220). {ECO:0000250|UniProtKB:P24409, ECO:0000269|PubMed:20576682, ECO:0000269|PubMed:22908308, ECO:0000269|PubMed:23263280, ECO:0000269|PubMed:30209220, ECO:0000269|PubMed:30398148, ECO:0000269|PubMed:32344433}

### Tissue Location

Expressed in the hippocampus (PubMed:29562525). Expressed in neutrophils (at protein level) (PubMed:29127255) Expressed in the testis (at protein level) (PubMed:28067790)

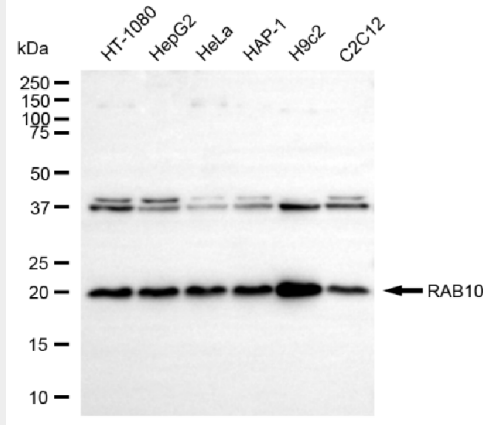
## KD-Validated Anti-RAB10 Rabbit Monoclonal Antibody - Protocols

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](#)

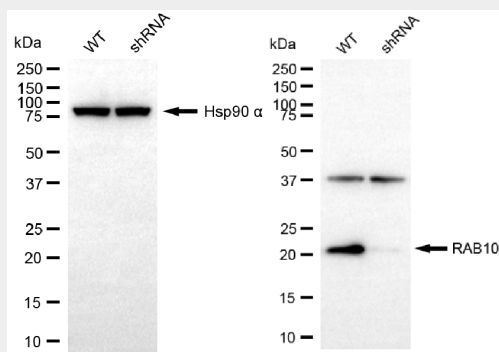
## KD-Validated Anti-RAB10 Rabbit Monoclonal Antibody - Images





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Western blotting analysis using anti-RAB10 antibody (Cat#AGI2263). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-RAB10 antibody (Cat#AGI2263, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-RAB10 antibody (Cat#AGI2263). RAB10 expression in wild-type (WT) and RAB10 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-RAB10 antibody (Cat#AGI2263, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.