

KD-Validated Anti-RAB5A Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1828**Specification****KD-Validated Anti-RAB5A Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P20339
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 24 kDa, observed, 24 kDa kDa
Gene Name	RAB5A
Aliases	RAB5A; RAB5A, Member RAS Oncogene Family; RAB5; RAS-Associated Protein RAB5A; Ras-Related Protein Rab-5A; EC 3.6.5.2
Immunogen	A synthesized peptide derived from human Rab5

KD-Validated Anti-RAB5A Rabbit Monoclonal Antibody - Additional Information

Gene ID	5868
Other Names	
Ras-related protein Rab-5A, 3.6.5.2, RAB5A, RAB5	

KD-Validated Anti-RAB5A Rabbit Monoclonal Antibody - Protein Information**Name** RAB5A ([HGNC:9783](#))**Synonyms** RAB5**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 (PubMed:[10818110](http://www.uniprot.org/citations/10818110), PubMed:[14617813](http://www.uniprot.org/citations/14617813), PubMed:[15378032](http://www.uniprot.org/citations/15378032), PubMed:[16410077](http://www.uniprot.org/citations/16410077)). Contributes to the regulation of filopodia extension (PubMed:[14978216](http://www.uniprot.org/citations/14978216)). Required for the exosomal release of SDCBP, CD63, PDZD6IP and syndecan (PubMed:[22660413](http://www.uniprot.org/citations/22660413)). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity).

Cellular Location

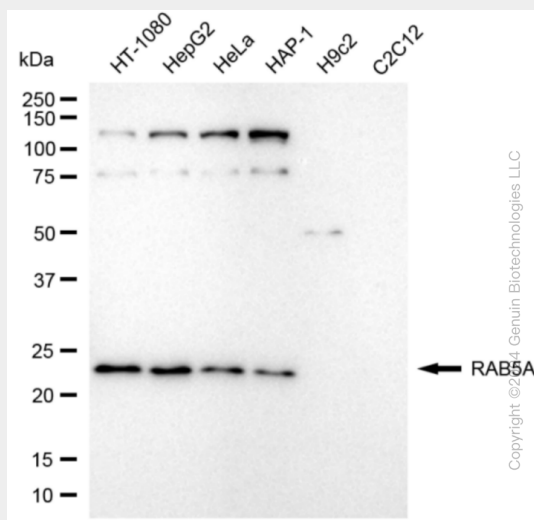
Cell membrane; Lipid-anchor; Cytoplasmic side. Early endosome membrane; Lipid- anchor. Melanosome. Cytoplasmic vesicle. Cell projection, ruffle {ECO:0000250|UniProtKB:P18066}. Membrane Cytoplasm, cytosol. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:Q9CQD1}. Endosome membrane Note=Enriched in stage I melanosomes (PubMed:17081065). Alternates between membrane-bound and cytosolic forms (Probable) {ECO:0000269|PubMed:17081065, ECO:0000305}

KD-Validated Anti-RAB5A Rabbit Monoclonal Antibody - Protocols

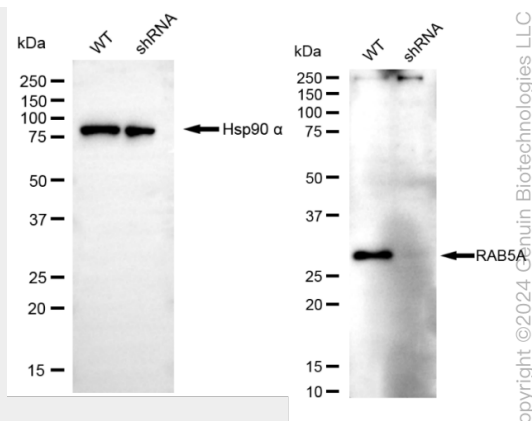
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

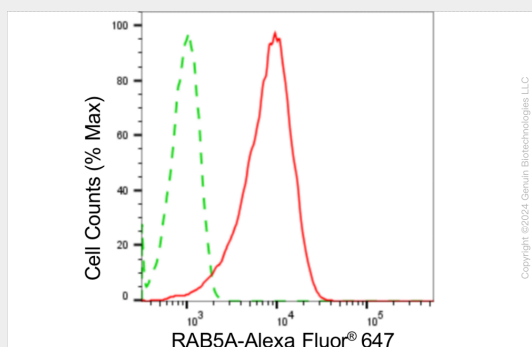
KD-Validated Anti-RAB5A Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-RAB5A antibody (Cat#AGI1828). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-RAB5A antibody (Cat#AGI1828, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-RAB5A antibody (Cat#AGI1828). RAB5A expression in wild-type (WT) and RAB5A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-RAB5A antibody (Cat#AGI1828, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of RAB5A expression in HepG2 cells using anti-RAB5A antibody (Cat#AGI1828, 1:2,000). Green, isotype control; red, RAB5A.