

**RAB4A Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1720a**

**Specification**

**RAB4A Antibody - Product Information**

Application	<b>E, WB, IHC, FC</b>
Primary Accession	<a href="#">P20338</a>
Reactivity	<b>Human, Mouse, Monkey</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>23.8kDa KDa</b>

**Description**

The protein encoded by this gene belongs to the rab family. Rab4A protein is involved in the regulation of procathepsin L secretion, it was either inhibited by expression of a Rab4A dominant-negative mutant or increased by overexpression of the wild-type Rab4A in human melanoma cells.

**Immunogen**

Purified recombinant fragment of human RAB4A expressed in E. Coli. <br />

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**RAB4A Antibody - Additional Information**

**Gene ID** 5867

**Other Names**

Ras-related protein Rab-4A, RAB4A, RAB4

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IHC~~1/200 - 1/1000  
FC~~1/200 - 1/400

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RAB4A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**RAB4A Antibody - Protein Information**

**Name** RAB4A

**Synonyms** RAB4

**Function**

Small GTPase which cycles between an active GTP-bound and an inactive GDP-bound state (PubMed:<a href="http://www.uniprot.org/citations/15907487" target="\_blank">15907487</a>, PubMed:<a href="http://www.uniprot.org/citations/16034420" target="\_blank">16034420</a>). Involved in protein transport (PubMed:<a href="http://www.uniprot.org/citations/29425100" target="\_blank">29425100</a>). Plays a role in vesicular traffic. Mediates VEGFR2 endosomal trafficking to enhance VEGFR2 signaling (PubMed:<a href="http://www.uniprot.org/citations/29425100" target="\_blank">29425100</a>). Acts as a regulator of platelet alpha- granule release during activation and aggregation of platelets (By similarity).

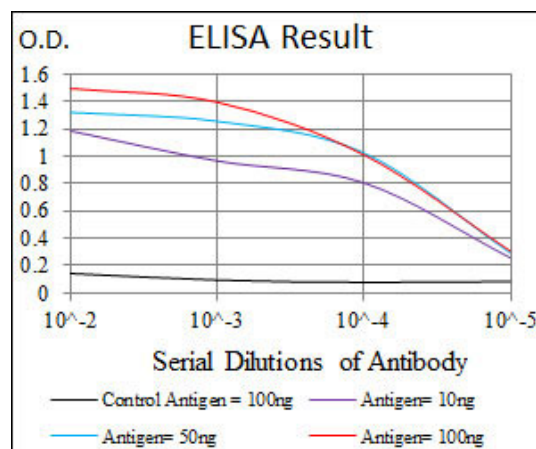
**Cellular Location**

Membrane; Peripheral membrane protein. Cytoplasm Early endosome membrane {ECO:0000250|UniProtKB:P05714}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05714}. Recycling endosome membrane {ECO:0000250|UniProtKB:P05714}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05714}. Note=Generally associated with membranes. Cytoplasmic when phosphorylated by CDK1

**RAB4A 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](#)



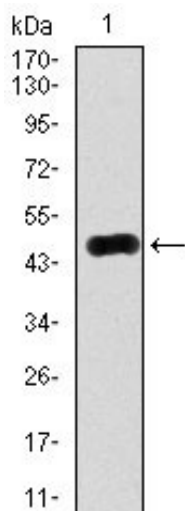


Figure 1: Western blot analysis using RAB4A mAb against human RAB4A (AA: 22-218) recombinant protein. (Expected MW is 47.9 kDa)

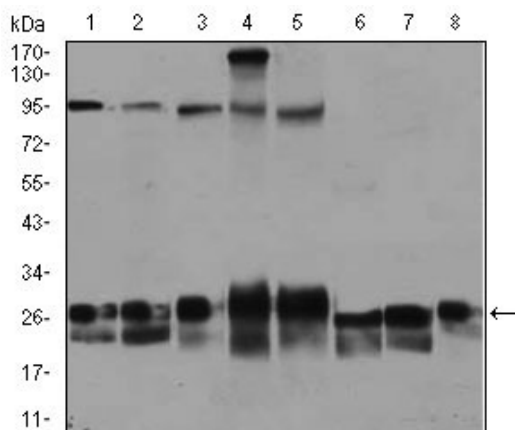


Figure 2: Western blot analysis using RAB4A mouse mAb against Jurkat (1), HeLa (2), A549 (3), HEK293 (4), K562 (5), NIH3T3 (6), PC-12 (7), and COS7 (8) cell lysate.

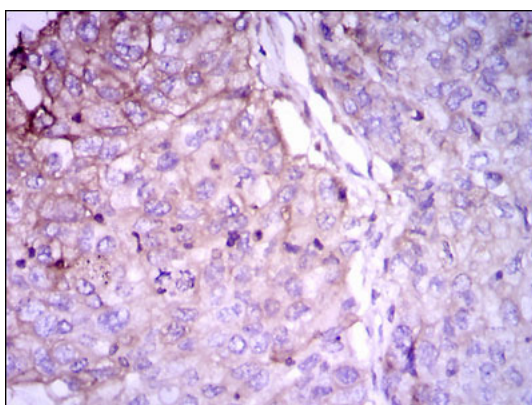


Figure 3: Immunohistochemical analysis of paraffin-embedded lung cancer tissues using RAB4A mouse mAb with DAB staining.

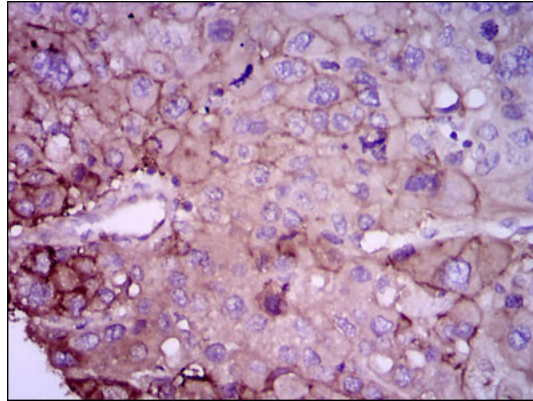


Figure 4: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using RAB4A mouse mAb with DAB staining.

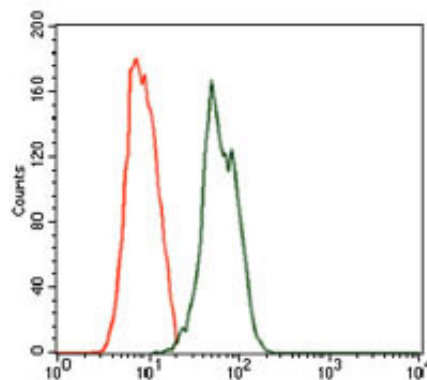


Figure 5: Flow cytometric analysis of MCF-7 cells using RAB4A mouse mAb (green) and negative control (red).

#### RAB4A Antibody - References

1. Biochem J. 2011 Jul 1;437(1):97-107.
2. Int J Cancer. 2011 Jan 1;128(1):192-205.