

**Mouse Monoclonal Antibody to RALB**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2449a****Specification**

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**Mouse Monoclonal Antibody to RALB - Product Information**

Application	WB, IHC, FC, E
Primary Accession	<a href="#">P11234</a>
Reactivity	Human, Mouse, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	23.4kDa KDa

**Description**

This gene encodes a GTP-binding protein that belongs to the small GTPase superfamily and Ras family of proteins. GTP-binding proteins mediate the transmembrane signaling initiated by the occupancy of certain cell surface receptors.;

**Immunogen**

Purified recombinant fragment of human RALB (AA: 89-206) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**Application Note**

ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; FCM: 1/200 - 1/400

**Mouse Monoclonal Antibody to RALB - Additional Information**

**Gene ID** 5899

**Dilution**

WB~~1:1000  
IHC~~1:100~500  
FC~~1:10~50  
E~~N/A

**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**

Mouse Monoclonal Antibody to RALB is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Monoclonal Antibody to RALB - Protein Information**

## Name RALB

### Function

Multifunctional GTPase involved in a variety of cellular processes including gene expression, cell migration, cell proliferation, oncogenic transformation and membrane trafficking (PubMed:<a href="http://www.uniprot.org/citations/10393179" target="\_blank">10393179</a>, PubMed:<a href="http://www.uniprot.org/citations/17875936" target="\_blank">17875936</a>, PubMed:<a href="http://www.uniprot.org/citations/18756269" target="\_blank">18756269</a>). Accomplishes its multiple functions by interacting with distinct downstream effectors. Acts as a GTP sensor for GTP-dependent exocytosis of dense core vesicles (By similarity). Required both to stabilize the assembly of the exocyst complex and to localize functional exocyst complexes to the leading edge of migrating cells (By similarity). Required for suppression of apoptosis (PubMed:<a href="http://www.uniprot.org/citations/17875936" target="\_blank">17875936</a>). In late stages of cytokinesis, upon completion of the bridge formation between dividing cells, mediates exocyst recruitment to the midbody to drive abscission (PubMed:<a href="http://www.uniprot.org/citations/18756269" target="\_blank">18756269</a>). Involved in ligand-dependent receptor mediated endocytosis of the EGF and insulin receptors (PubMed:<a href="http://www.uniprot.org/citations/10393179" target="\_blank">10393179</a>).

### Cellular Location

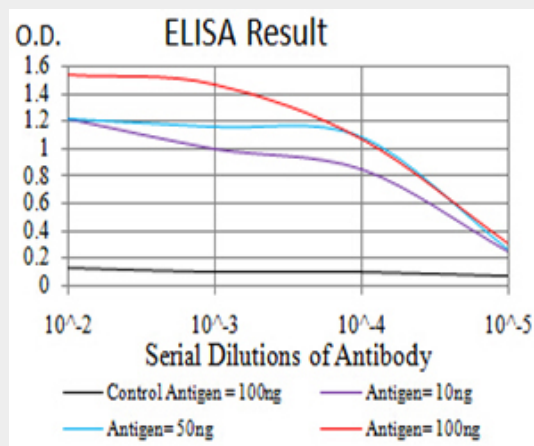
Cell membrane; Lipid-anchor; Cytoplasmic side. Midbody Note=During late cytokinesis, enriched at the midbody

## Mouse Monoclonal Antibody to RALB - Protocols

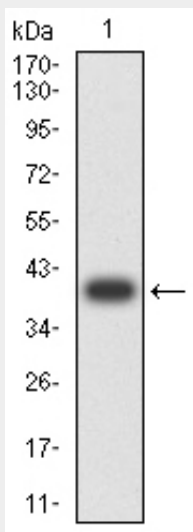
Provided below are standard protocols that you may find useful for product applications.

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

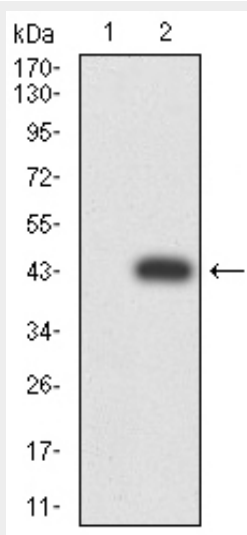
## Mouse Monoclonal Antibody to RALB - Images



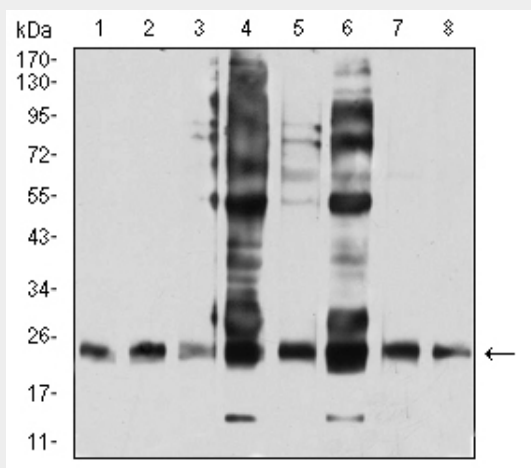
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using RALB mAb against human RALB (AA: 89-206) recombinant protein. (Expected MW is 39.7 kDa)

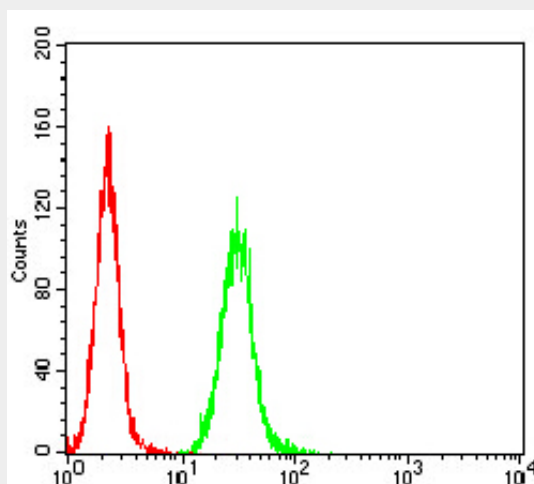


Western blot analysis using RALB mAb against HEK293 (1) and RALB (AA: 89-206)-hlgGfC transfected HEK293 (2) cell lysate.

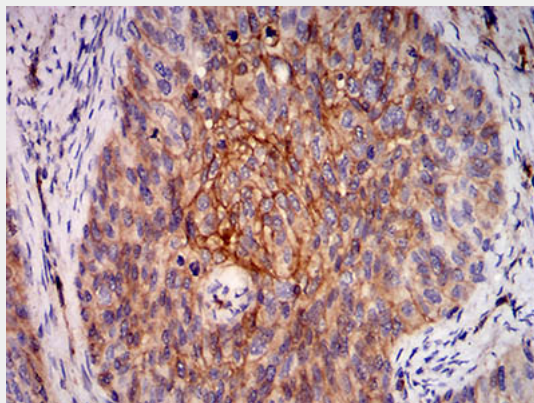


Western blot analysis using RALB mouse mAb against HepG2 (1), COS7 (2), NIH/3T3 (3), A549 (4),

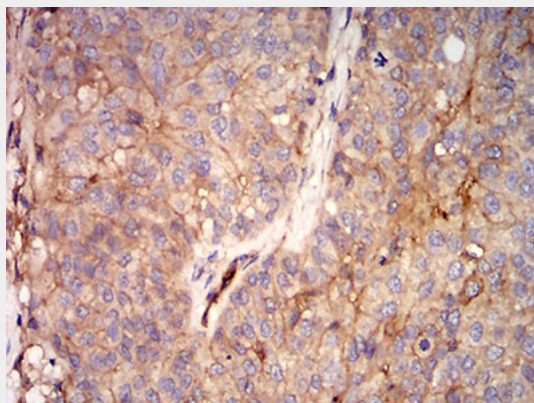
U251 (5), HT-29 (6), HEK293 (7), and LOVO (8) cell lysate.



Flow cytometric analysis of Hela cells using RALB mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using RALB mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using RALB mouse mAb with DAB staining.

#### Mouse Monoclonal Antibody to RALB - References

1.Clin Transl Oncol. 2015 Jun;17(6):477-85. ; 2.Cancer Res. 2010 Nov 1;70(21):8760-9.;