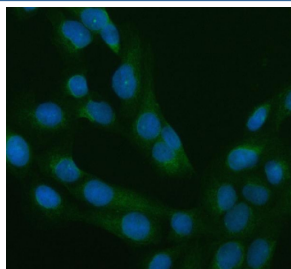


## RAB11 Antibody / Rab11A (R32159)

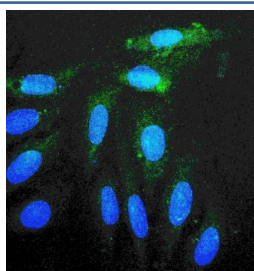
Catalog No.	Formulation	Size
R32159	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

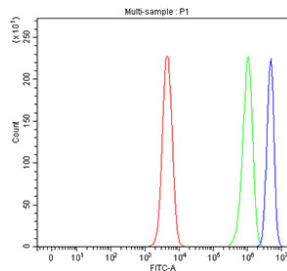
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P62491
<b>Localization</b>	Cytoplasm, cell membrane
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
<b>Limitations</b>	This RAB11 antibody is available for research use only.



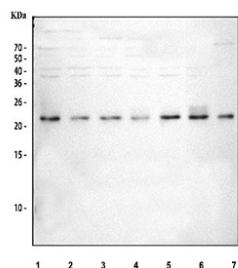
IF/ICC staining of FFPE human U-2 OS cells with RAB11 antibody (green) at 5ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



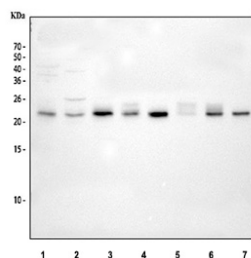
IF/ICC staining of FFPE human A549 cells with RAB11 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of fixed and permeabilized human SH-SY5Y cells with RAB11 antibody at 1ug/10<sup>6</sup> cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RAB11 antibody.



Western blot testing of human 1) 293T, 2) SH-SY5Y, 3) HeLa, 4) MCF7, 5) A549, 6) RT4 and 7) HaCaT cell lysate with RAB11 antibody. Predicted molecular weight ~24 kDa.



Western blot testing of human 1) rat brain, 2) rat spleen, 3) rat lung, 4) rat PC-12, 5) mouse brain, 6) mouse spleen, 7) mouse lung and 8) mouse NIH 3T3 cell lysate with RAB11 antibody. Predicted molecular weight ~24 kDa.

## Description

RAB11 is a member of the RAB family of small GTPases, which are master regulators of intracellular vesicle trafficking. Specifically, RAB11 is critical for regulating recycling endosome dynamics and the trafficking of cargo from recycling endosomes back to the plasma membrane. It plays a vital role in processes such as receptor recycling, cytokinesis, epithelial polarity, and membrane protein localization.

RAB11 is widely expressed and functionally conserved across species. It is essential for maintaining cell surface receptor levels, especially in rapidly cycling cells such as epithelial and immune cells. Dysregulation of RAB11-mediated trafficking has been implicated in several disease processes, including cancer, neurodegenerative disorders, and infectious diseases, where altered membrane trafficking affects signaling, adhesion, and immune responses.

The RAB11 antibody is an indispensable tool for researchers studying membrane trafficking, cell polarity, and endosomal recycling. With validated performance in applications such as immunofluorescence, western blotting, and immunohistochemistry, the RAB11 antibody enables specific and sensitive detection of endogenous RAB11. The RAB11 antibody is especially useful for visualizing subcellular localization and vesicle trafficking dynamics in both normal and pathological conditions.

## Application Notes

Optimal dilution of the RAB11 antibody should be determined by the researcher.

## Immunogen

Amino acids EIYRIVSQKQMSPDRRENDMSPSNNVPIHVPPTTENKPKVQ of human RAB11A were used as the

immunogen for the RAB11 antibody.

## **Storage**

After reconstitution, the RAB11 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.