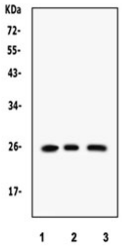
RAB14 Antibody (R32156)

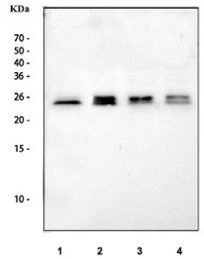
Catalog No.	Formulation	Size
R32156	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

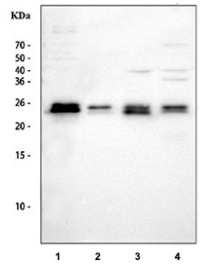
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P61106
Localization	Cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml
Limitations	This RAB14 antibody is available for research use only.



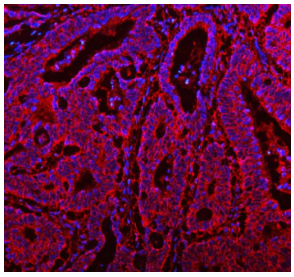
Western blot testing of 1) rat brain, 2) human Raji and 3) human SMMC lysate with RAB14 antibody. Expected/observed molecular weight ~24 kDa.



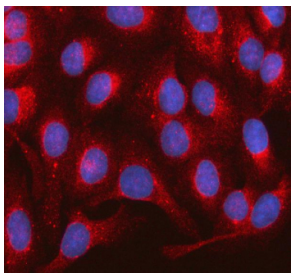
Western blot testing of human 1) HeLa, 2) SiHa, 3) RT4 and 4) MCF7 cell lysate with RAB14 antibody. Expected/observed molecular weight ~24 kDa.



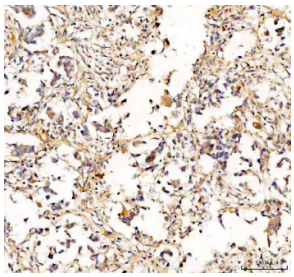
Western blot testing of 1) rat brain, 2) rat PC-12, 3) mouse brain and 4) mouse stomach tissue lysate with RAB14 antibody. Expected/observed molecular weight ~24 kDa.



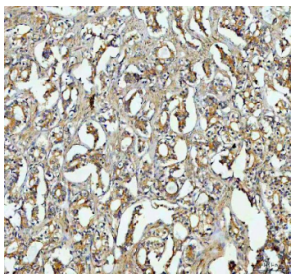
Immunofluorescent staining of FFPE human colon cancer tissue with RAB14 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



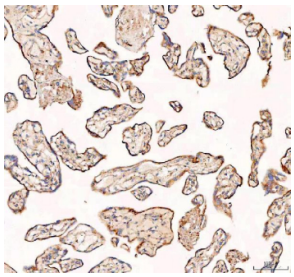
Immunofluorescent staining of FFPE human U-2 OS cells with RAB14 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



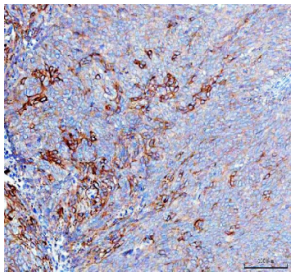
IHC staining of FFPE human breast cancer tissue with RAB14 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human ovarian cancer tissue with RAB14 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human placental tissue with RAB14 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human non-keratotic squamous cell carcinoma of the cervix tissue with RAB14 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

RAB14 is a member of the RAB family of small GTPases, which regulate intracellular membrane trafficking. Specifically, RAB14 plays a key role in endocytic recycling and vesicle transport between the Golgi apparatus and early endosomes. It is involved in the sorting and delivery of membrane proteins and lipids, influencing a wide range of cellular processes such as polarity establishment, cytokinesis, and signal transduction.

RAB14 is expressed in multiple tissues and has been implicated in the regulation of glucose transporter trafficking, immune cell function, and epithelial cell polarity. Dysregulation of RAB14 has been associated with metabolic disorders, immune dysfunction, and cancer progression. Its precise control of vesicle dynamics makes it a valuable target for studying intracellular transport and membrane organization.

The RAB14 antibody is a reliable reagent for detecting endogenous RAB14 expression in western blot, immunofluorescence, and immunohistochemistry applications. Researchers use the RAB14 antibody to investigate vesicle trafficking pathways, cellular polarity, and disease mechanisms. With high specificity and consistent performance, the RAB14 antibody is a critical tool for advancing studies in cell biology and pathology.

Application Notes

Optimal dilution of the RAB14 antibody should be determined by the researcher.

Immunogen

Amino acids NKADLEAQRDVTYEEAKQFAEENGLLFLEA of human RAB14 were used as the immunogen for the RAB14 antibody.

Storage

After reconstitution, the RAB14 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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