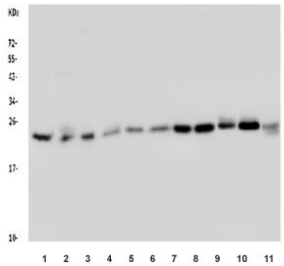
RAB5A Antibody [clone 3E9.] (RQ4897)

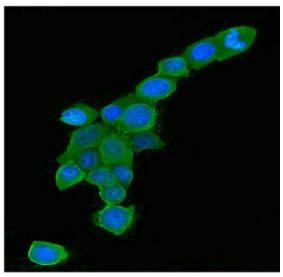
Catalog No.	Formulation	Size
RQ4897	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

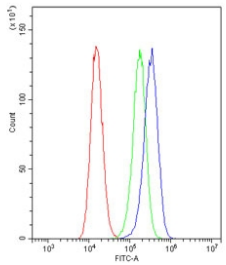
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	3E9.
Purity	Purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P20339
Applications	Western blot: 0.5-1ug/ml Flow Cytometry: 1-3ug/10^6 cells Immunofluorescence: 2-4ug/ml
Limitations	This RAB5A antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) placenta, 3) A549, 4) A375, 5) SW620, 6) U-2 OS, 7) HEK293, 8) U-87 MG, 9) rat brain, 10) mouse brain and 11) mouse Neuro-2a lysate with RAB5A antibody. Predicted molecular weight ~25 kDa.



Immunofluorescent staining of FFPE human MCF7 cells with RAB5A antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human A431 cells with RAB5A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RAB5A antibody.

Description

RAB5A (Ras-associated protein RAB5A), also called RAB5, is a protein that in humans is encoded by the RAB5A gene. RAB5 is a rate-limiting component of the machinery regulating the kinetics of membrane traffic in the early endocytic pathway. The RAB5A gene is mapped on 3p24.3. RAB5 is indispensable for a form of receptor tyrosine kinase-induced actin remodeling called circular ruffling. It signals to the actin cytoskeleton through RNTRE, a RAB5-specific GTPase-activating protein (GAP).RAB5 activity on phagosome membranes began to increase on disassembly of the actin coat encapsulating phagosomes. In addition, RAB5 activation is either continuous or repetitive for up to 10 minutes, but it ends before the collapse of engulfed apoptotic cells. Expression of a dominant-negative mutant of RAB5 delayed this collapse of apoptotic thymocytes, showing a role for RAB5 in phagosome maturation.

Application Notes

Optimal dilution of the RAB5A antibody should be determined by the researcher.

Immunogen

Amino acids KKLPKNEPQNPGANSARGRGVDLTEPTQPTRNQCCSN from the human protein were used as the immunogen for the RAB5A antibody.

Storage

After reconstitution, the RAB5A 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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