

ARG42510 anti-RAB5A antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes RAB5A
Tested Reactivity	Hu, Ms, Rat, Dog, Mk
Tested Application	ICC/IF, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	RAB5A
Species	Mouse
Immunogen	Purified recombinant peptide within aa. 115 to the C-terminus of Mouse RAB5A.
Conjugation	Un-conjugated
Alternate Names	Ras-related protein Rab-5A; RAB5

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:250
	WB	1:250 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SW948, NIH/3T3, MCF7, MDCK and HeLa	
Observed Size	~ 27 kDa	

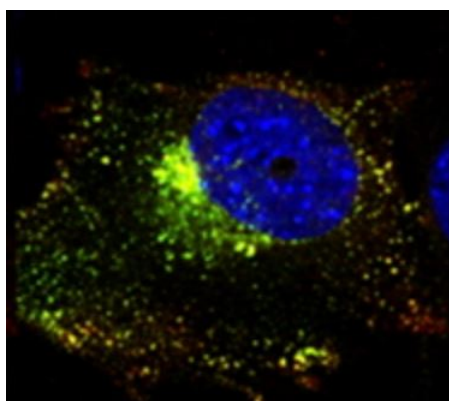
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.05% Sodium azide and 20% Glycerol.
Preservative	0.05% Sodium azide
Stabilizer	20% Glycerol
Concentration	4 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

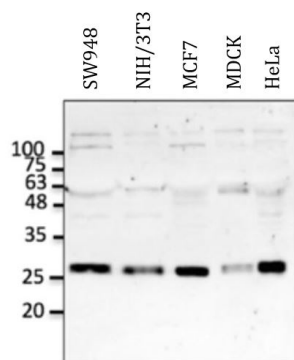
Gene Symbol	RAB5A
Gene Full Name	RAB5A, member RAS oncogene family
Function	Small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate cellular responses such as of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Active GTP-bound form is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes (PubMed:10818110, PubMed:14617813, PubMed:16410077, PubMed:15378032). Contributes to the regulation of filopodia extension (PubMed:14978216). Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (PubMed:22660413). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity). [UniProt]
Calculated Mw	24 kDa
Cellular Localization	Cell membrane; Lipid-anchor; Cytoplasmic side. Early endosome membrane; Lipid-anchor. Melanosome. Cytoplasmic vesicle. Cell projection, ruffle. Membrane. Cytoplasm, cytosol. Cytoplasmic vesicle, phagosome membrane. Endosome membrane. Note=Enriched in stage I melanosomes (PubMed:17081065). Alternates between membrane-bound and cytosolic forms (Probable). [UniProt]

Images



ARG42510 anti-RAB5A antibody ICC/IF image

Immunofluorescence: Hepa1-6 cells were fixed with 4% PFA. Cells were stained with ARG42510 anti-RAB5A antibody (green) at 1:50 dilution. Nuclear staining (blue).



ARG42510 anti-RAB5A antibody WB image

Western blot: 50 µg of SW948, NIH/3T3, MCF7, MDCK and HeLa cell lysates stained with ARG42510 anti-RAB5A antibody at 1:2500 dilution.