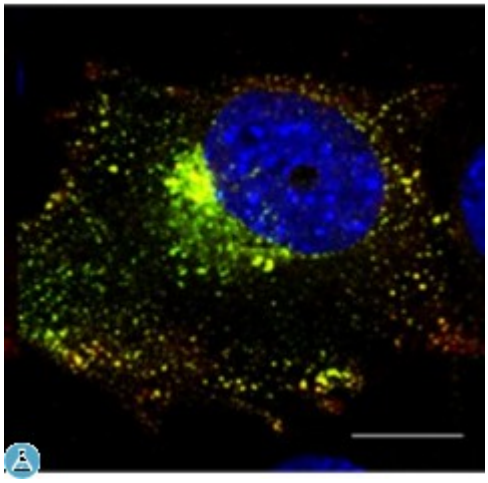
Anti-Rab5a antibody



Description	Goat polyclonal antibody to mouse Rab5a. Rab5a belongs to the small GTPase superfamily, Rab family. Rab5a is an Early Endosome Marker and functions as a key regulator of vesicular trafficking during early endocytosis

Model	STJ140060
Host	Goat
Reactivity	Avian, Bovine, Canine, Donkey, Feline, Goat, Guinea Pig, Hamster, Horse, Human, Mouse, Other, Porcine, Rabbit, Rat, Sheep, Simian
Applications	IF, WB
Immunogen	Purified recombinant peptide derived from within residues 115 aa to the C-terminus of mouse Rab5a produced in E. coli.
Immunogen Region	C-Term
Gene ID	5868
Gene Symbol	RAB5A
Dilution range	Western blot 1:250-1:5,000 Immunofluorescence 1:50-1:250 Immunohistochemistry (paraffin) ND Immunohistochemistry (frozen) ND
Specificity	Detects Rab5a protein by Western blot in cell lysates of transfected cells with GFP-Rab5a. This Ab is specific for Rab5a; it does not recognize Rab5b and Rab5c.
Purification	This antibody is epitope-affinity purified from goat antiserum.
Note	For research use only (RUO).
Protein Name	Ras-related protein Rab-5A

Molecular Weight	24 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS, 20% glycerol and 0.05% sodium azide.
Concentration	3 mg/mL
Storage Instruction	Store at -20°, and avoid repeated freeze-thaw cycles.
Database Links	HGNC:9783OMIM:179512
Alternative Names	Ras-related protein Rab-5A
Function	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that 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 . Contributes to the regulation of filopodia extension . Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan . Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 .
Cellular Localization	Cell membrane Early endosome membrane Melanosome Cytoplasmic vesicle Cell projection, ruffle Membrane Cytoplasm, cytosol. Cytoplasmic vesicle, phagosome membrane Endosome membrane. Enriched in stage I melanosomes . Alternates between membrane-bound and cytosolic forms (Probable).