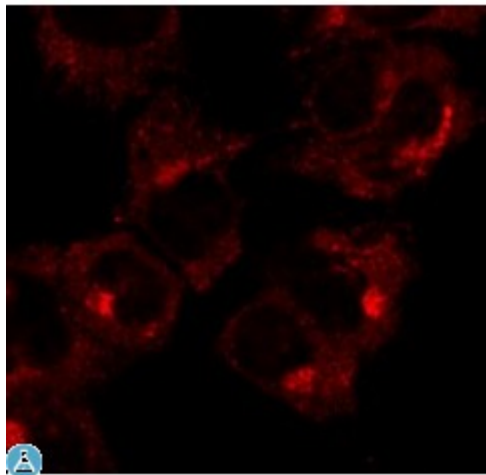


Anti-Rab1 antibody



Description	Goat polyclonal antibody to mouse Rab1. Rab1 belongs to the small GTPase superfamily, Rab family. Rab1 controls vesicle traffic from the endoplasmic reticulum to the Golgi apparatus.
Model	STJ140056
Host	Goat
Reactivity	Avian, Bovine, Canine, Donkey, Feline, Goat, Guinea Pig, Hamster, Horse, Human, Mouse, Other, Porcine, Rabbit, Rat, Sheep, Simian
Applications	IF, IHC, WB
Immunogen	Purified recombinant peptides derived from within residues 110 aa to the C-terminus of mouse Rab1a and Rab1b produced in E. coli.
Immunogen Region	C-Term
Gene ID	5861
Gene Symbol	RAB1A
Dilution range	Western blot 1:250-1:1,000 Immunofluorescence 1:50-1:250 Immunohistochemistry (paraffin) 1:250-1:1,500 Immunohistochemistry (frozen) 1:250-1:1,500
Specificity	Detects total Rab1 protein by Western blot in the following human, rat and mouse whole cell lysates and transfected cells with GFP-Rab1a and GFP-Rab1b cds.
Purification	This antibody is epitope-affinity purified from goat antiserum.
Note	For research use only (RUO).
Protein Name	Ras-related protein Rab-1A (YPT1-related protein)

Molecular Weight	23 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:97580 MIM:179508
Alternative Names	Ras-related protein Rab-1A (YPT1-related protein)
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. RAB1A regulates vesicular protein transport from the endoplasmic reticulum (ER) to the Golgi compartment and on to the cell surface, and plays a role in IL-8 and growth hormone secretion. Regulates the level of CASR present at the cell membrane. Plays a role in cell adhesion and cell migration, via its role in protein trafficking. Plays a role in autophagosome assembly and cellular defense reactions against pathogenic bacteria. Plays a role in microtubule-dependent protein transport by early endosomes and in anterograde melanosome transport.
Cellular Localization	Golgi apparatus Endoplasmic reticulum Early endosome Cytoplasm, cytosol Membrane Melanosome. Alternates between membrane-associated and cytosolic forms.
Post-translational Modifications	Phosphorylated by CDK1 kinase during mitosis. Phosphocholinated at Ser-79 by L.pneumophila AnkX, leading to displace GDP dissociation inhibitors (GDI). Both GDP-bound and GTP-bound forms can be phosphocholinated. Dephosphocholinated by L.pneumophila Lem3, restoring accessibility to L.pneumophila GTPase effector LepB.