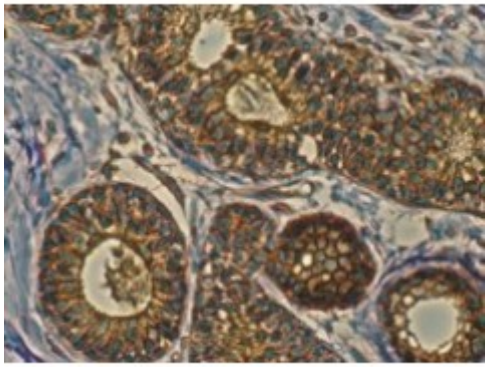
Anti-Rab11 antibody



Description	Goat polyclonal antibody to mouse Rab11. Rab11 belongs to the small GTPase superfamily, Rab family. The protein is membrane-bound and plays essential roles in vesicle and granule targeting. It has been shown that Rab11 associates with recycling endosomes.

Model	STJ140067
Host	Goat
Reactivity	Avian, Bovine, Canine, Donkey, Feline, Goat, Guinea Pig, Hamster, Horse, Human, Mouse, Other, Porcine, Rabbit, Rat, Sheep, Simian
Applications	WB
Immunogen	Purified recombinant peptides derived from within residues 110 aa to the C-terminus of mouse Rab11a, Rab11b and Rab11c (Rab25) produced in E. coli.
Immunogen Region	C-Term
Gene ID	8766
Gene Symbol	RAB11A
Dilution range	Western blot 1:250-1:2,000 Immunofluorescence ND Immunohistochemistry (paraffin) 1:100-1:400 Immunohistochemistry (frozen) 1:100-1:400
Specificity	Detects levels of Rab11 by Western blot in the following human, rat and mouse whole cell lysates and transfected cells with GFP-Rab11a, GFP-Rab11b and GFP-Rab11c (Rab25) cds.
Purification	This antibody is epitope-affinity purified from goat antiserum.
Note	For research use only (RUO).
Protein Name	Ras-related protein Rab-11A (Rab-11) (YL8)

Molecular Weight	25 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS, 20% glycerol and 0.05% sodium azide.
Concentration	2 mg/mL
Storage Instruction	Store at -20°, and avoid repeated freeze-thaw cycles.
Database Links	HGNC:9760OMIM:605570
Alternative Names	Ras-related protein Rab-11A (Rab-11) (YL8)
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 set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab regulates endocytic recycling. Acts as a major regulator of membrane delivery during cytokinesis. Together with MYO5B and RAB8A participates in epithelial cell polarization. Together with RAB3IP, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B participates in CFTR trafficking to the plasma membrane and TF (Transferrin) recycling in nonpolarized cells. Required in a complex with MYO5B and RAB11FIP2 for the transport of NPC1L1 to the plasma membrane. Participates in the sorting and basolateral transport of CDH1 from the Golgi apparatus to the plasma membrane. Regulates the recycling of FCGRT (receptor of Fc region of monomeric Ig G) to basolateral membranes. May also play a role in melanosome transport and release from melanocytes.
Cellular Localization	Cell membrane Recycling endosome membrane Cleavage furrow Cytoplasmic vesicle, phagosome. Translocates with RAB11FIP2 from the vesicles of the endocytic recycling compartment (ERC) to the plasma membrane . Localizes to the cleavage furrow . Colocalizes with PARD3, PRKCI, EXOC5, OCLN, PODXL and RAB8A in apical membrane initiation sites (AMIS) during the generation of apical surface and lumenogenesis . Recruited to phagosomes containing S.aureus or M.tuberculosis .