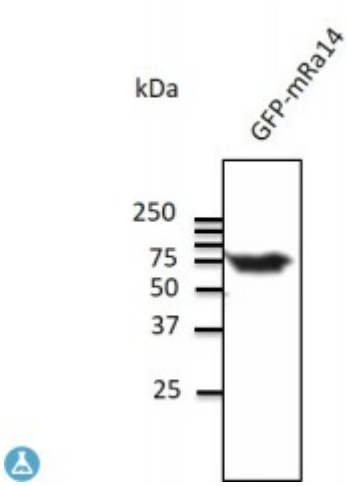
Anti-Rab14 antibody



Description	RAB14 belongs to the large RAB family of low molecular weight GTPases that are involved in intracellular membrane trafficking. This protein is expressed at high levels in kidney, lung, brain, spleen and thymus and it is thought to be involved in vesicular trafficking and neurotransmitter release. It is also involved in the biosynthetic/recycling pathway between the Golgi and endosomal compartments.

Model	STJ140071
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 110 aa to the C-terminus of mouse Rab14 produced in E. coli.
Immunogen Region	C-Term
Gene ID	51552
Gene Symbol	RAB14
Dilution range	Western blot 1:250-1:2,000 Immunofluorescence 1:25-1:200 Immunohistochemistry (paraffin) ND Immunohistochemistry (frozen) ND
Specificity	Detects Rab14 by Western blot in transfected cells with GFP-Rab14.
Purification	This antibody is epitope-affinity purified from goat antiserum.
Note	For research use only (RUO).

Protein Name	Ras-related protein Rab-14
Molecular Weight	24 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:16524OMIM:612673
Alternative Names	Ras-related protein Rab-14
Function	Involved in membrane trafficking between the Golgi complex and endosomes during early embryonic development. Regulates the Golgi to endosome transport of FGFR-containing vesicles during early development, a key process for developing basement membrane and epiblast and primitive endoderm lineages during early postimplantation development. May act by modulating the kinesin KIF16B-cargo association to endosomes . Regulates, together with its guanine nucleotide exchange factor DENND6A, the specific endocytic transport of ADAM10, N-cadherin/CDH2 shedding and cell-cell adhesion.
Cellular Localization	Recycling endosome Early endosome membrane Golgi apparatus membrane Golgi apparatus, trans-Golgi network membrane Cytoplasmic vesicle, phagosome. Recruited to recycling endosomes by DENND6A . Recruited to phagosomes containing S.aureus or M.tuberculosis .