

#3539
 Store at -20°C

Rab11 Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source: Rabbit	UniProt ID: #P62491, #Q15907	Entrez-Gene Id: 8766, 9230
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Rab11 Antibody detects endogenous levels of total Rab11 protein, including isoforms Rab11a and Rab11b.	
Species predicted to react based on 100% sequence homology:	Pig	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg30 of human Rab11 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Rab11a, Rab11b and Rab25 are members of the Rab11 family of small Ras-like GTPases. Rab11 (isoforms Rab11a and Rab11b) functions as a key regulator in the recycling of perinuclear, plasma membrane and Golgi compartment endosomes (1,2). Despite some overlap, distinct differences exist between Rab11a and Rab11b in both their cellular distribution and functional roles. Rab11a is ubiquitously expressed while Rab11b is found mainly in the heart and brain (3,4). Like other Rab proteins, Rab11 exerts its function via interactions with Rab11 family interacting proteins (FIPs). While there are three distinct classes of FIPs, all appear to share a conserved carboxy-terminal Rab-binding domain that allows Rab-FIP protein interaction. When bound together, these proteins are thought to regulate membrane-associated protein sorting (5,6).	
Background References	1. Ullrich, O. et al. (1996) <i>J. Cell Biol.</i> 135, 913-924. 2. Chen, W. et al. (1998) <i>Mol. Biol. Cell</i> 9, 3241-3257. 3. Lapierre, L.A. et al. (2003) <i>Exp. Cell Res.</i> 290, 322-331. 4. Khvotchev, M.V. et al. (2003) <i>J. Neurosci.</i> 23, 10531-10539. 5. Junutula, J.R. et al. (2004) <i>J. Biol. Chem.</i> 279, 33430-33437. 6. Hales, C.M. et al. (2001) <i>J. Biol. Chem.</i> 276, 39067-39075.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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