

**#4879** Store at -20°C

# Rab6 Antibody


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	24	Rabbit	#P20340	5870

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Rab6 Antibody detects endogenous levels of total Rab6 protein.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys133 of human Rab6 protein. Antibodies are purified by peptide affinity chromatography.	
<b>Background</b>	Rab6 is a member of the Ras superfamily of small Rab GTPases implicated in endocytosis (1). The three distinct members of the Rab6 subfamily (Rab6A, Rab6A', and Rab6B) are structurally similar but likely exhibit non-overlapping functions (2,3). Rab6 localized to the Golgi (4) regulates retrograde transport of membrane-bound target proteins from the Golgi apparatus to the endoplasmic reticulum (5-7) or from the Golgi to the endosome during exocytotic transport (8). Rab6 interacts with microtubule motor proteins such as rabkinesin-6 (KIF20A) and dynein/dynactin complexes; Rab6-mediated transport requires a functionally intact microtubule system (9,10). Rab6 also regulates cytokinesis and cell cycle check point through interactions with Rab6 effector proteins, including the dynein/dynactin protein DCTN1 and the GTPase activating protein RABGAP1 (11,12).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Zerial, M. and McBride, H. (2001) <i>Nat Rev Mol Cell Biol</i> 2, 107-17.</li> <li>2. Echard, A. et al. (2000) <i>Mol Biol Cell</i> 11, 3819-33.</li> <li>3. Del Nery, E. et al. (2006) <i>Traffic</i> 7, 394-407.</li> <li>4. Goud, B. et al. (1994) <i>Ann N Y Acad Sci</i> 733, 340-3.</li> <li>5. White, J. et al. (1999) <i>J Cell Biol</i> 147, 743-60.</li> <li>6. Opdam, F.J. et al. (2000) <i>J Cell Sci</i> 113 ( Pt 15), 2725-35.</li> <li>7. Martinez, O. et al. (1997) <i>Proc Natl Acad Sci USA</i> 94, 1828-33.</li> <li>8. Grigoriev, I. et al. (2007) <i>Dev Cell</i> 13, 305-14.</li> <li>9. Echard, A. et al. (1998) <i>Science</i> 279, 580-5.</li> <li>10. Young, J. et al. (2005) <i>Mol Biol Cell</i> 16, 162-77.</li> <li>11. Hill, E. et al. (2000) <i>EMBO J</i> 19, 5711-9.</li> <li>12. Miserey-Lenkei, S. et al. (2006) <i>EMBO J</i> 25, 278-89.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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