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## Rab5A Antibody

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

<b>Applications:</b> W, IF-IC	<b>Reactivity:</b> H M R Hm Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 25	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P20339	<b>Entrez-Gene Id:</b> 5868
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunofluorescence (Immunocytochemistry)	<b>Dilution</b> 1:1000 1:150
<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>	Rab5A Antibody detects endogenous levels of total Rab5A protein.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly190 of human Rab5A protein. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Rab5 is a member of the Ras superfamily of small Rab GTPases. Rab5 is localized at the plasma membrane and early endosomes and functions as a key regulator of vesicular trafficking during early endocytosis (1). The conformational change between Rab5 GTP/GDP states is essential for its biological function as a rate limiting regulator at multiple steps during endocytosis (1,2). Rab5 exerts its function by interacting with several Rab5-specific effectors (1-3). These proteins form complexes with Rab5 on a specialized Rab domain of the endosome and promote recycling of Rab5-cargo targets between endosome and the plasma membrane.	
<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. van der Bliek, A.M. (2005) <i>Nat Cell Biol</i> 7, 548-50.</li> <li>3. Haas, A.K. et al. (2005) <i>Nat Cell Biol</i> 7, 887-93.</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>W:</b> Western Blotting <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)	
<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	
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