## **EEA1 Antibody**



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

<b>Applications:</b> W, IP, IF-IC	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 170	Source/Isotype: Rabbit	UniProt ID: #Q15075	Entrez-Gene Id: 8411	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence		istry)		<b>Dilution</b> 1:1000 1:25 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		EEA1 Antibody detects endogenous levels of total EEA1 protein. Nucleolar background has been observed in some cell lines by immunofluorescence.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly14 of human EEA1 protein. Antibodies are purified by peptide affinity chromatography.					
Background		EEA1 is an early endosomal marker and a Rab5 effector protein essential for early endosomal membrane fusion and trafficking (1-2). The carboxy terminus of EEA1 contains a FYVE domain which binds to phosphatidylinositol-3-phosphate (PtdIns(3)P), targeting EEA1 to early endosomes (3). The stable association of EEA1 with the endosomal membrane is regulated by PI3 kinase, Rab5 and calcium/calmodulin (4-6). Once on the membrane, EEA1 interacts with Rab5, NSF and syntaxin 13 to promote early endosomal membrane docking and fusion (7).					
Background References		<ol> <li>Mu, F.T. et al. (1995) J. Biol. Chem. 270, 13503-13511.</li> <li>Christoforidis, S. et al. (1999) Nature 397, 621-625.</li> <li>Gaullier, J.M. et al. (1998) Nature 394, 432-433.</li> <li>Patki, V. et al. (1997) Proc. Natl. Acad. Sci. USA 94, 7326-7330.</li> <li>Lawe, D.C. et al. (2003) Mol. Biol. Cell 14, 2935-2945.</li> <li>Simonsen, A. et al. (1998) Nature 394, 494-498.</li> <li>McBride, H.M. et al. (1999) Cell 98, 377-386.</li> </ol>					

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 nonfadry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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