## EEA1 (C45B10) Rabbit mAb



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<b>Applications:</b> W, IP, IF-F, IF-IC	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 170	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q15075	Entrez-Gene Id: 8411
Product Usage Information	•	Application Western Blotting Immunoprecipitation Immunofluorescence Immunofluorescence	(Frozen)	istry)		<b>Dilution</b> 1:1000 1:100 1:50 - 1:200 1:50 - 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.  For a carrier free (BSA and azide free) version of this product see product #65014.				
Specificity/Sensitivity		EEA1 (C45B10) Rabbit mAb detects endogenous levels of total EEA1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser70 of human EEA1 protein.				
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 Ro	eferences	<ol> <li>Mu, F.T. et al. (1995) <i>J. Biol. Chem.</i> 270, 13503-13511.</li> <li>Christoforidis, S. et al. (1999) <i>Nature</i> 397, 621-625.</li> <li>Gaullier, J.M. et al. (1998) <i>Nature</i> 394, 432-433.</li> <li>Patki, V. et al. (1997) <i>Proc. Natl. Acad. Sci. USA</i> 94, 7326-7330.</li> <li>Lawe, D.C. et al. (2003) <i>Mol. Biol. Cell</i> 14, 2935-2945.</li> <li>Simonsen, A. et al. (1998) <i>Nature</i> 394, 494-498.</li> <li>McBride, H.M. et al. (1999) <i>Cell</i> 98, 377-386.</li> </ol>				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.o̯	յ., 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 $\circledR$  20 at 4°C with gentle shaking, overnight.

**Applications Key** 

W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen) IF-IC:

Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat

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