**Limited Uses** 

## EEA1 (C45B10) Rabbit mAb



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

Applications:ReactiveW, IP, IF-F, IF-ICH M		<b>MW (kDa):</b> 170	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q15075	Entrez-Gene Id: 8411	
Product Usage Information	Immunofluorescence	• •			<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 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
	For a carrier free (BS	For a carrier free (BSA and azide free) version of this product see product #65014.				
Specificity/Sensitivity	EEA1 (C45B10) Rabbit	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	membrane fusion an binds to phosphatidy stable association of calcium/calmodulin (	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	2. Christoforidis, S. et 3. Gaullier, J.M. et al. ( 4. Patki, V. et al. (1997 5. Lawe, D.C. et al. (20 6. Simonsen, A. et al.	<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 d	etermined by testin	g in at least one approve	ed 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	3	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IF-F:</b> Immunofluorescence (Frozen) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	<b>H:</b> Human <b>M:</b> Mouse	H: Human M: Mouse R: Rat				
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