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EEA1 Antibody


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| Applications: WB, IP, IF-IC | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 170 | Source: Rabbit | UniProt ID: #Q15075 | Entrez-Gene Id: 8411 |
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| Product Usage Information | Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry) | Dilution 1:1000 1:25 1:100 |
| Storage | 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. | |
| 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 | 1. Mu, F.T. et al. (1995) <i>J. Biol. Chem.</i> 270, 13503-13511. 2. Christoforidis, S. et al. (1999) <i>Nature</i> 397, 621-625. 3. Gaullier, J.M. et al. (1998) <i>Nature</i> 394, 432-433. 4. Patki, V. et al. (1997) <i>Proc. Natl. Acad. Sci. USA</i> 94, 7326-7330. 5. Lawe, D.C. et al. (2003) <i>Mol. Biol. Cell</i> 14, 2935-2945. 6. Simonsen, A. et al. (1998) <i>Nature</i> 394, 494-498. 7. McBride, H.M. et al. (1999) <i>Cell</i> 98, 377-386. | |

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| 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
| Applications Key | WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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