

EEA1

Reactivity: Human Mouse Rat

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Calculated MW: 162kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant Protein of human EEA1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

MST105; ZFYVE2; MSTP105

Catalog #: A0592

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 8411

Isotype: IgG

Swiss Prot: Q15075

Purity: Affinity purification

For research use only.

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). 1. Mu, F.T. et al. (1995) J. Biol. Chem. 270, 13503-13511. 2. Christoforidis, S. et al. (1999) Nature 397, 621-625. 3. Gaullier, J.M. et al. (1998) Nature 394, 432-433. 4. Patki, V. et al. (1997) Proc. Natl. Acad. Sci. USA 94, 7326-7330. 5. Lawe, D.C. et al. (2003) Mol. Biol. Cell 14, 2935-2945. 6. Simonsen, A. et al. (1998) Nature 394, 494-498. 7. McBride, H.M. et al. (1999) Cell 98, 377-386.

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