

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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