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Anti-Early Endosome Antigen 1 (EEA1) Antibody

Catalog # AN1760

Product Information

Application	WB, ICC
Primary Accession	Q15075
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M347
Calculated MW	162466

Additional Information

Gene ID	8411
Other Names	Early endosome antigen 1, Endosome-associated protein p162, Zinc finger FYVE domain-containing protein 2, EEA1, ZFYVE2
Target/Specificity	Early endosomes are cellular compartments that receive endocytosed materials and sort them for vesicular transport to late endosomes and lysosomes, as well as for recycling material to the plasma membrane. Early endosome antigen 1 (EEA1) is an early endosomal protein that contains an N-terminal zinc finger motif, a cys-rich C-terminal metal-binding finger, and multiple sites for N-glycosylation, phosphorylation, and N-myristoylation. Expression of EEA1 mRNA is observed in skeletal muscle, heart, brain, lung, liver, and pancreas. Immunoblot analysis shows that EEA1 is a 180-kDa protein localized in membrane and cytosolic fractions. Immunofluorescence microscopy shows that EEA1 colocalizes with transferrin and with RAB5 in early endosomes, but not with RAB7 in late endosomes.
Dilution	WB~~1:1000 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Early Endosome Antigen 1 (EEA1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

Early endosomes are cellular compartments that receive endocytosed materials and sort them for vesicular transport to late endosomes and lysosomes, as well as for recycling material to the plasma membrane. Early endosome antigen 1 (EEA1) is an early endosomal protein that contains an N-terminal zinc finger motif, a cys-rich C-terminal metal-binding finger, and multiple sites for N-glycosylation, phosphorylation, and N-myristoylation. Expression of EEA1 mRNA is observed in skeletal muscle, heart, brain, lung, liver, and

pancreas. Immunoblot analysis shows that EEA1 is a 180-kDa protein localized in membrane and cytosolic fractions. Immunofluorescence microscopy shows that EEA1 colocalizes with transferrin and with RAB5 in early endosomes, but not with RAB7 in late endosomes.