

Anti-EEA1 Picoband Antibody

Catalog # ABO10240

Product Information

Application	WB
Primary Accession	Q15075
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for EEA1 detection. Tested with WB in Human;Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	8411
Other Names	Early endosome antigen 1, Endosome-associated protein p162, Zinc finger FYVE domain-containing protein 2, EEA1, ZFYVE2
Calculated MW	162466
Application Details	Western blot, 0.1-0.5 µg/ml
Subcellular Localization	Cytoplasm. Early endosome membrane; Peripheral membrane protein.
Source	Eukaryota
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence of human EEA1 (RENQSLQIKHTQALNRKWAEDNEVQN).
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20° C; for one year. After reconstitution, at 4° C; for one month. It can also be aliquotted and stored frozen at -20° C; for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	EEA1 (HGNC:3185)
Synonyms	ZFYVE2

Function	Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate and participates in endosomal trafficking.
Cellular Location	Early endosome membrane; Peripheral membrane protein. Cytoplasm

Background

The gene EEA1 encodes for the 1400 amino acid protein, Early Endosome Antigen 1. It localizes exclusively to early endosomes and has an important role in endosomal trafficking. EEA1 binds directly to the phospholipid phosphatidylinositol 3-phosphate through its C-terminal FYVE domain and forms a homodimer through a coiled coil. Furthermore, EEA1 acts as a tethering molecule that couples vesicle docking with SNAREs such as N-ethylmaleimide sensitive fusion protein, bringing the endosomes physically closer and ultimately resulting in the fusion and delivery of endosomal cargo.

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