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Rabbit Anti-EEA1 antibody

SL11250R

Product Name:	EEA1
Chinese Name:	早期内吞体相关蛋白1抗体
Alias:	Early endosome antigen 1; Early endosome antigen 1, 162kD; Early endosome associated protein; EEA 1; EEA1; EEA1_HUMAN; Endosome associated protein p162; Endosome-associated protein p162; MST105; MSTP105; ZFYVE2; Zinc finger FYVE domain containing protein 2; Zinc finger FYVE domain-containing protein 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,hamster,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	162kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human EEA1:1251-1350/1411
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Early endosomes are cytoplasmic compartments that function in receiving and sorting endocytosed proteins for vesicular transport. EEA1 (early endosome antigen 1) is a peripheral membrane protein that co-localizes with the transferrin receptor and Rab5 on early endosomes. EEA1 contains a calmodulin-binding IQ motif and cysteine rich finger

motif necessary for its specific localization to the early endosomes. EEA1 has sequence homology to several yeast proteins that have been implicated in membrane trafficking, including Vps27, Fab1 and Vac1. Evidence suggests a possible role for EEA1 in mediating the regulatory effects of 3'-phosphoinositides on membrane trafficking.

Function:
Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate and participates in endosomal trafficking.

Subunit:
Homodimer. Binds STX6. Binds RAB5A, RAB5B, RAB5C and RAB22A that have been activated by GTP-binding. Interacts with ERBB2.

Subcellular Location:
Cytoplasm. Early endosome membrane.

Similarity:
Contains 1 C2H2-type zinc finger. Contains 1 FYVE-type zinc finger.

SWISS:
Q15075

Gene ID:
8411

Database links:

Entrez Gene: 8411Human

Entrez Gene: 216238Mouse

Entrez Gene: 314764Rat

Omim: 605070Human

SwissProt: Q15075Human

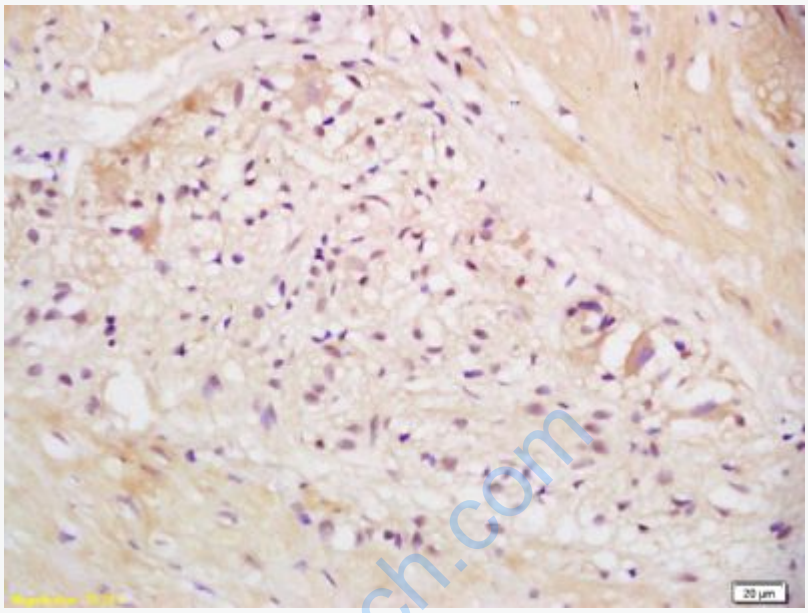
SwissProt: Q8BL66Mouse

Unigene: 567367Human

Unigene: 210035Mouse

Unigene: 23513Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Tissue/cell: human stomach tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-EEA1 Polyclonal Antibody, Unconjugated(SL11250R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining