

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat EEA1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human EEA1 Asn1249-Gln1356 Accession # Q15075
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

EEA1 (Early Endosome Autoantigen 1; also Endosome-associated protein p162 and Zn-finger FYVE domain-containing protein 2) is a 170-180 kDa protein that serves as an identifying marker for early endosomes. It is ubiquitously expressed, and found in both the cytosol and on cellular membranes. Its activity has been described as that of a tethering factor which links endosomes to endocytic vesicles, allowing for their fusion via a SNARE complex. Normally, EEA1 exists as a homodimer in the cytoplasm and appears to make transient contacts with endosome membrane phosphatidylinositol. When endosome fusion is not required, EEA1 serves as a substrate for p97, promoting EEA1 dissociation and endosome independence. When endosome fusion is required, EEA1 interacts with NSF, resulting in its removal from a large endosome-associated complex and subsequent endosomal vesicle fusion. Human EEA1 is synthesized as a 1411 amino acid (aa) protein that contains one C2H2-type Zn finger region (aa 41-64) and one FYVE Zn finger domain (aa 1352-1410). There is one isoform variant that contains a nine aa substitution for aa 925-1411. Over aa 1249-1356, human EEA1 shares 99% aa sequence identity with mouse EEA1.

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