

Datasheet for ABIN967983

## anti-EEA1 antibody (AA 3-281)



[Go to Product page](#)

4 Images

5 Publications

### Overview

Quantity:	150 µg
Target:	EEA1
Binding Specificity:	AA 3-281
Reactivity:	Human, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EEA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

### Product Details

Immunogen:	Human EEA1 aa. 3-281
Clone:	14-EEA1
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus), Chicken, Dog (Canine)
Characteristics:	<ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol>

## Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
---------------	---

## Target Details

Target:	EEA1
Alternative Name:	EEA1 ( <a href="#">EEA1 Products</a> )
Background:	Early endosomes are a major cytoplasmic sorting compartment from which receptors and ligands may be distributed to various sites within the cell. Early endosome antigen 1 (EEA1) is a 180 kDa hydrophilic peripheral membrane protein present in cytosol and membrane fractions. Immunofluorescence studies show that EEA1 colocalizes to early endosomes with transferrin receptor and Rab5, but not with the late endosome-localizing Rab7. EEA1 is predominantly alpha-helical and shares 17-20% sequence identity with the myosins. It contains a calmodulin-binding IQ motif and metal-binding cysteine finger motifs. It is thought that EEA1 is required for vesicular transport of proteins through early endosomes and that these finger motifs are required for this activity. This antibody is routinely tested by western blot analysis.
Molecular Weight:	180 kDa
Pathways:	<a href="#">Toll-Like Receptors Cascades</a>

## Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

## Publications

- Product cited in: van Dam, Stoorvogel: "Dynamamin-dependent transferrin receptor recycling by endosome-derived clathrin-coated vesicles." in: **Molecular biology of the cell**, Vol. 13, Issue 1, pp. 169-82, (2002) ([PubMed](#)).
- Yan, Han, Miao, Greengard, Xu: "The transmembrane domain of the Alzheimer's beta-secretase (BACE1) determines its late Golgi localization and access to beta -amyloid precursor protein (APP) substrate." in: **The Journal of biological chemistry**, Vol. 276, Issue 39, pp. 36788-96, (2001) ([PubMed](#)).
- Allan, Moyer, Balch: "Rab1 recruitment of p115 into a cis-SNARE complex: programming budding COPII vesicles for fusion." in: **Science (New York, N.Y.)**, Vol. 289, Issue 5478, pp. 444-8, (2000) ([PubMed](#)).
- Mullock, Smith, Ihrke, Bright, Lindsay, Parkinson, Brooks, Parton, James, Luzio, Piper: "Syntaxin 7 is localized to late endosome compartments, associates with Vamp 8, and is required for late endosome-lysosome fusion." in: **Molecular biology of the cell**, Vol. 11, Issue 9, pp. 3137-53, (2000) ([PubMed](#)).
- Mu, Callaghan, Steele-Mortimer, Stenmark, Parton, Campbell, McCluskey, Yeo, Tock, Toh: "EEA1, an early endosome-associated protein. EEA1 is a conserved alpha-helical peripheral membrane protein flanked by cysteine "fingers" and contains a calmodulin-binding IQ motif." in: **The Journal of biological chemistry**, Vol. 270, Issue 22, pp. 13503-11, (1995) ([PubMed](#)).

## Images



### Western Blotting

Image 1.



#### Western Blotting

**Image 2.** Western blot analysis of EEA1 on rat brain lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10000 dilution of anti-EEA1 antibody.



**Image 3.** Immunostaining on Human Smooth Muscle

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967983.