Human/Mouse/Rat EEA1
Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: IC8047G
100 TESTS

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	EEA1 antibodies are ideal for immunocytochemistry colocalization studies in endosomes. The unconjugated antibody detects human, mouse, and rat EEA1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human EEA1 Asn1249-Gln1356 Accession # Q15075
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

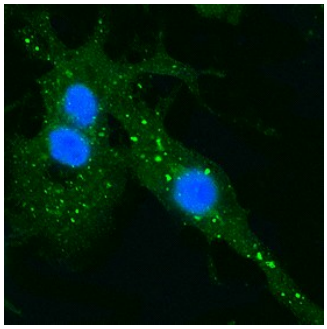
APPLICATIONS

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.*

	Recommended Concentration	Sample
Immunocytochemistry	1:10 dilution	See Below

DATA

Immunocytochemistry



EEA1 in HeLa Human Cell Line. EEA1 was detected in formaldehyde fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human/Mouse/Rat EEA1 Alexa Fluor® 488-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # IC8047G) at 1:10 dilution overnight at 4 °C and counterstained with DAPI (blue). Specific staining was localized to endosomes. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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 known as 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.

www.RnDSystems.com For research use only. Not for use in diagnostic procedures.
USA & CANADA Tel: (800) 343-7475 **EUROPE** Tel: +44 (0)1235 529449 **CHINA** Tel: +86 (21) 52380373

Human/Mouse/Rat EEA1
Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: IC8047G
100 TESTS

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

www.RnDSystems.com For research use only. Not for use in diagnostic procedures.
USA & CANADA Tel: (800) 343-7475 **EUROPE** Tel: +44 (0)1235 529449 **CHINA** Tel: +86 (21) 52380373

R&D SYSTEMS®