

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects recombinant human RIAM/APBB1IP in direct ELISAs. Detects human and mouse RIAM/APBB1IP in Western blots
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RIAM/APBB1IP Gly2-Ser89 Accession # Q7Z5R6
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

APBB1IP (Amyloid beta A4 precursor protein-binding family B member 1 interacting protein; also PREL-1, Pro-rich protein 73, RARP1 and RIAM) is a member of the MRL family of proteins. Although its predicted MW is 73 kDa, it runs anomalously at 100-110 kDa in SDS-PAGE. It is expressed in megakaryocytes, T cells and fibroblasts. APBB1IP acts as a coordinator for Rap1 GTPase signaling. Rap1 both antagonizes Ras signaling, and is associated with β 1 and β 2 integrin-induced cell adhesion and cytoskeleton rearrangement. Within this context, APBB1IP operates as a cytosolic adaptor protein that induces integrin activation by recruiting talin and RAP1 to the cell membrane, and by mediating Profilin and VASP protein polymerization of actin. Human APBB1IP is 666 amino acids (aa) in length. It contains a poly-Pro sequence (aa 129-148), a Ras-association domain (aa 176-263), a PH domain (aa 310-419), and a large poly-Pro region (aa 503-640). There are multiple potential isoform variants. One contains a deletion of aa 152-177 coupled to a 27 aa substitution for aa 262-666, a second possesses a 21 aa substitution for aa 152-666, and a third shows a deletion of aa 386-390 coupled to a five aa substitution for aa 417-666. Over aa 2-89, human APBB1IP shares 97% aa sequence identity with mouse APBB1IP.

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.