10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-RIAM Antibody

Catalog # ABO11266

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	Q7Z5R6
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Amyloid beta A4 precursor protein-binding family B member 1-interacting protein(APBB1IP) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	54518
Other Names	Amyloid beta A4 precursor protein-binding family B member 1-interacting protein, APBB1-interacting protein 1, Proline-rich EVH1 ligand 1, PREL-1, Proline-rich protein 73, Rap1-GTP-interacting adapter molecule, RIAM, Retinoic acid-responsive proline-rich protein 1, RARP-1, APBB1IP, PREL1, RARP1, RIAM
Calculated MW	73183
Application Details	Immunocytochemistry , 0.5-1 □g/ml, Human, Rat Immunohistochemistry(Frozen Section), 0.5-1 □g/ml, Rat, Human Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Rat
Subcellular Localization	Cell membrane ; Peripheral membrane protein . Cell projection, lamellipodium . Cell junction, focal adhesion . Cytoplasm, cytoskeleton . Colocalizes with ENA/VASP proteins at lamellipodia tips and focal adhesions, and F- actin at the leading edge. At the membrane surface, associates, via the PH domain, preferentially with the inositol phosphates, PtdIns(5)P and PtdIns(3)P. This binding appears to be necessary for the efficient interaction of the RA domain to Ras-GTPases (By similarity). .
Tissue Specificity	Widely expressed with high expression in thymus, spleen, lymph node, bone marrow and peripheral leukocytes. .
Source	Eukaryota

Protein Name	Amyloid beta A4 precursor protein-binding family B member 1-interacting protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human APBB1IP(647-666aa EQDFMSDLMKALQKKRGNVS), different from the related rat sequence by one amino acid, and from the related mouse sequence by two amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the MRL family.

Protein Information

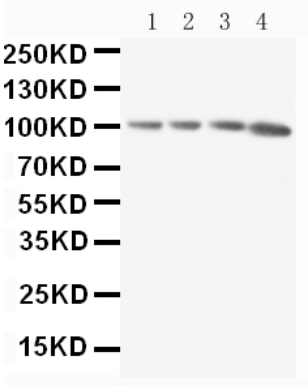
Name	APBB1IP
Synonyms	PREL1, RARP1, RIAM
Function	Appears to function in the signal transduction from Ras activation to actin cytoskeletal remodeling. Suppresses insulin-induced promoter activities through AP1 and SRE. Mediates Rap1-induced adhesion.
Cellular Location	Cell membrane; Peripheral membrane protein. Cell projection, lamellipodium Cell junction, focal adhesion. Cytoplasm, cytoskeleton. Note=Colocalizes with ENA/VASP proteins at lamellipodia tips and focal adhesions, and F-actin at the leading edge. At the membrane surface, associates, via the PH domain, preferentially with the inositol phosphates, PtdIns(5)P and PtdIns(3)P. This binding appears to be necessary for the efficient interaction of the RA domain to Ras-GTPases (By similarity).
Tissue Location	Widely expressed with high expression in thymus, spleen, lymph node, bone marrow and peripheral leukocytes

Background

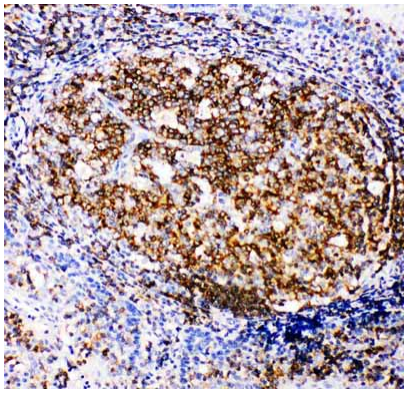
APBB1IP(APBB1-Interacting Protein), also called RIAM or RARP1, is a protein that in humans is encoded by the APBB1IP gene. By genomic sequence analysis, Lafuente et al.(2004) mapped the RIAM gene to chromosome 10p12.1. Using promoter-reporter gene assays, Inagaki et al.(2003) found that RARP1 suppressed transcription from AP1 and SRE sites, but not CRE sites, in all cell lines examined. The proline-rich regions of RARP1 suppressed AP1 transactivation. Lafuente et al.(2004) found that RIAM interacted with profilin and VASP, molecules that regulate actin dynamics, as well as with RAP1-GTP.

Images

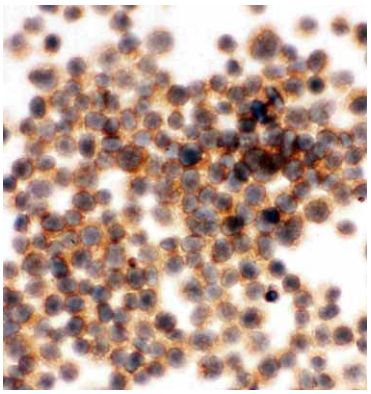
Anti-RIAM antibody, ABO11266, Western blottingLane 1: Rat Thymus Tissue LysateLane 2: Rat Spleen Tissue LysateLane 3: Rat RAJI Tissue LysateLane 4: HL-60 Cell



Lysate



Anti-RIAM antibody, ABO11266, IHC(P)IHC(P): Human Tonsil Tissue



Anti-RIAM antibody, ABO11266, ICCICC: JURKAT Cell