

Human/Mouse RIAM/APBB1IP Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7279

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	E. coli-derived recombinant human RIAM/APBB1IP Gly2-Ser89 Accession # Q7Z5R6		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

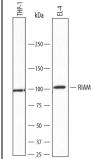
APPLICATIONS

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
Western Blot	1 μg/mL	See Below
Immunocytochemistry	5-15 μg/mL	See Below

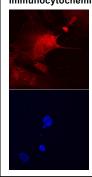
DATA

Western Blot



Detection of Human and Mouse RIAM/APBB1IP by Western Blot. Western blot shows lysates of THP-1 human acute monocytic leukemia cell line and EL-4 mouse lymphoblast cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human RIAM/APBB1IP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7279) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for RIAM/APBB1IP at approximately 100-110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunocytochemistry



RIAM/APBB1IP in Wi-38 Human Cell Line. RIAM/APBB1IP was detected in immersion fixed Wi-38 human lung fibroblast cell line using Sheep Anti-Human RIAM/APBB1IP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7279) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights[™] 557-conjugated Anti-Sheep IgG Secondary Antibody (red, upper panel; Catalog # NL010) and counterstained with DAPI (blue, lower panel). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coversijps.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 β1 and β2 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 polymerizatiuon 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.

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