Human/Mouse RIAM/APBB1IP Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7279R
100 µg

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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 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.

PRODUCT SPECIFIC NOTICES

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