

ARG42414 anti-RLTPR antibody [EM-53]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [EM-53] recognizes RLTPR
Tested Reactivity	Hu, Ms
Tested Application	FACS, WB
Specificity	The mouse monoclonal antibody EM-53 recognizes RLTPR / CARMIL2, an intracellular protein playing a role in actin filament elongation.
Host	Mouse
Clonality	Monoclonal
Clone	EM-53
Isotype	IgG1, kappa
Target Name	RLTPR
Species	Mouse
Immunogen	Murine RLTPR.
Conjugation	Un-conjugated
Alternate Names	CARMIL2b; CARMIL2; Leucine-rich repeat-containing protein 16C; LRRC16C; RGD, leucine-rich repeat, tropomodulin and proline-rich-containing protein

Application Instructions

Application table	Application	Dilution
	FACS	1 - 4 µg/ml
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

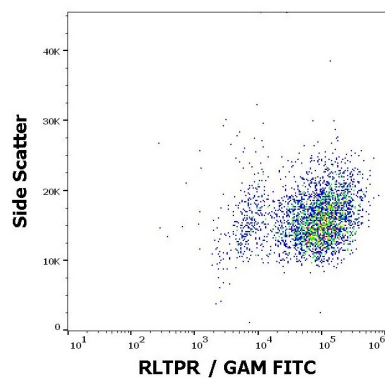
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

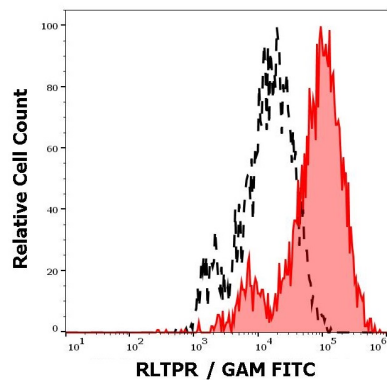
Gene Symbol	RLTPR
Gene Full Name	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing
Background	This gene encodes a member of the CARMIL (capping protein, Arp2/3, myosin-I linker) family of proteins. The encoded protein interacts with and negatively regulates the heterodimeric capping protein and promotes cell migration. Reduced expression of this gene has been observed in human psoriasis patients. Mutations in this gene cause a human immunodeficiency syndrome characterized by smooth muscle tumors and impaired T-cell function. [provided by RefSeq, May 2017]
Function	Cell membrane-cytoskeleton-associated protein that plays a role in the regulation of actin polymerization at the barbed end of actin filaments. Prevents F-actin heterodimeric capping protein (CP) activity at the leading edges of migrating cells, and hence generates uncapped barbed ends and enhances actin polymerization (PubMed:26466680). Plays a role in cell protrusion formations; involved in cell polarity, lamellipodial assembly, membrane ruffling and macropinosome formations (PubMed:19846667, PubMed:26578515, PubMed:26466680). Involved as well in cell migration and invadopodia formation during wound healing (PubMed:19846667, PubMed:26578515, PubMed:26466680). Required for CD28-mediated stimulation of NF-kappa-B signaling, involved in naive T cells activation, maturation into T memory cells, and differentiation into T helper and T regulatory cells (PubMed:27647349, PubMed:27647348, PubMed:28112205). [UniProt]
Calculated Mw	155 kDa
Cellular Localization	Isoform 2: Cytoplasm. Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium. Cell projection, ruffle. Note=Colocalizes to dynamic vimentin filaments both in the central cytoplasm and at leading edges of migrating cells (PubMed:26578515, PubMed:26466680, PubMed:19846667). Colocalizes with F-actin, Arp2/3 complex and cortactin to leading edge lamellipodia, ruffles and macropinosomes of migrating cells (PubMed:26578515). [UniProt]

Images



ARG42414 anti-RLTPR antibody [EM-53] FACS image

Flow Cytometry: RLTPR transfected cells stained with ARG42414 anti-RLTPR antibody [EM-53] at 9 µg/ml dilution, followed by FITC-conjugated Goat anti-Mouse antibody.



ARG42414 anti-RLTPR antibody [EM-53] FACS image

Flow Cytometry: Separation of RLTPR transfected cells stained with ARG42414 anti-RLTPR antibody [EM-53] at 9 µg/ml dilution (red-filled) from RLTPR transfected cells stained with [ARG65323](#) Mouse IgG1 Kappa Isotype Control antibody [MOPC-21] at 9 µg/ml dilution (black-dashed). Secondary antibody: FITC-conjugated Goat anti-Mouse antibody.