



[Go to Product page](#)

Datasheet for ABIN6579829

anti-RLTPR antibody

2 Images

Overview

Quantity:	0.1 mg
Target:	RLTPR
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RLTPR antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	Murine RLTPR
Clone:	EM-53
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody EM-53 recognizes RLTPR / CARMIL2, an intracellular protein playing a role in actin filament elongation.
Cross-Reactivity (Details):	Human, Mouse
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	RLTPR
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Target Details

Alternative Name: RLTPR / CARMIL2 ([RLTPR Products](#))

Background: Capping protein regulator and myosin 1 linker 2, RLTPR / CARMIL2 (RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing, capping protein regulator and myosin 1 linker 2), also known as LRRC16C, is a cytosolic protein, which with high affinity binds CAPZA2 (capping protein muscle actin Z-line alpha 2) and decreases CAPZA2 affinity for actin barbed ends. RLTPR / CARMIL2 increases the rate of actin filament elongation from seeds in the presence of CAPZA2, however, seems unable to nucleate filaments. Its interaction with CAPZA2 is essential for lamellipodial protrusion and cell translocation. RLTPR / CARMIL2 is crucial for T cell costimulation via CD28 and this property seems to be independent on its actin-uncapping function. The lack of functional RLTPR / CARMIL2 Molecules impeded the differentiation toward Th1 and Th17 fates of both human and murine CD4+ T cells and leads to combined immunodeficiency. Expression of RLTPR / CARMIL2 was also detected in human and murine B cells, but it seems not to be involved in BCR-mediated signaling. CARMIL2, LRRC16C

Gene ID: 146206

UniProt: [Q6F5E8](#)

Application Details

Application Notes: Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

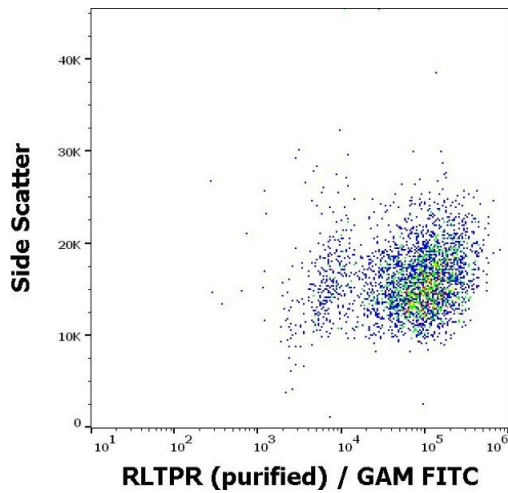
Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

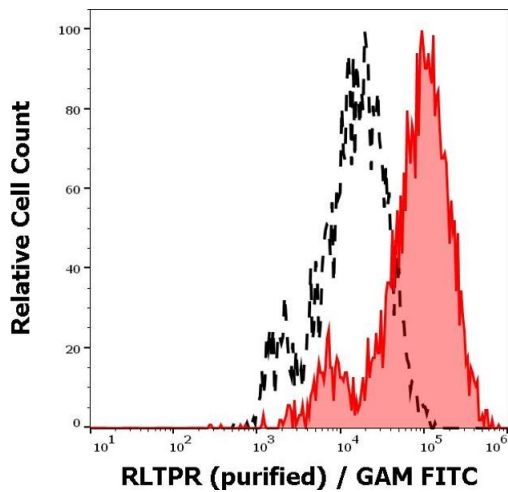
Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of RLTPR transfected cells stained using anti-human RLTPR (EM-53) purified antibody (concentration in sample 9 µg/mL) GAM FITC.



Flow Cytometry

Image 2. Separation of RLTPR transfected cells stained using anti-human RLTPR (EM-53) purified antibody (GAM FITC, concentration in sample 9 µg/mL, red-filled) from RLTPR transfected cells stained using mouse IgG1 isotype control (MOPC-21) purified antibody (GAM FITC, concentration in sample 9 µg/mL, black-dashed) in flow cytometry analysis (intracellular staining).