Datasheet for ABIN7506007

anti-RLTPR antibody (APC)

1 Image

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Overview

Quantity:	0.1 mg
Target:	RLTPR
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RLTPR antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-RLTPR APC
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.
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	RLTPR

Target Details

Alternative Name:	RLTPR (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 crutial 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: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Concentration:	0.1 mg/mL
Buffer:	Stabilizing 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. Protect from prolonged exposure to light. Do not freeze.

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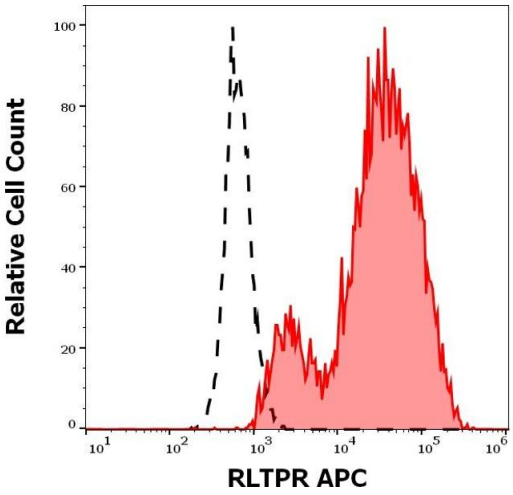

Flow Cytometry

Image 1. Separation of cells stained using anti-RLTPR (EM-53) APC antibody (10 µL reagent per million cells in 100 µL of cell suspension, red-filled) from cells stained using mouse IgG1 isotype control (MOPC-21) APC antibody (concentration in sample 5 µg/mL, same as RLTPR APC antibody concentration, black-dashed) in flow cytometry analysis (intracellular staining) of RLTPR transfected BI-141 cells.

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