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anti-CD70 antibody (PE)

Images

Publications



Overview

Quantity:	100 tests
Target:	CD70
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD70 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	human L428 cell line
Clone:	Ki-24
Isotype:	IgG3 kappa
Specificity:	The mouse monoclonal antibody Ki-24 recognizes an extracellular epitope of CD70, an approximately 50 kDa type II transmembrane glycoprotein expressed on activated lymphocytes and some B cell leukemias.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target: CD70

Target Details

Alternative Name:	CD70 (CD70 Products)
Background:	CD70 Molecule,CD70, also known as TNFSF7 or CD27L, is a 50 kDa type II transmembrane
	glycoprotein of the TNF superfamily. It is expressed mainly on activated lymphocytes, including
	NK cells, and forms trimeric structure. CD70 plays a role in T-cell activation, proliferation and
	differentiation, in enhancing the generation of cytolytic T cells, and in long-term maintenance of
	T cell memory. It is also involved in B cell differentiation induced by activated plasmacytoid
	dendritic cells, which also express CD70.,CD27L, TNFSF7, CD27 ligand, TNLG8A
Gene ID:	970
UniProt:	P32970
Pathways:	Cancer Immune Checkpoints
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.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The
	conjugate is purified by size-exclusion chromatography and adjusted for direct use. No
	reconstitution is necessary.
Restrictions:	For Research Use only
Handling	
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.
Publications	
Product cited in:	Trebing, El-Mesery, Schäfer, Weisenberger, Siegmund, Silence, Wajant: "CD70-restricted specific
	activation of TRAILR1 or TRAILR2 using scFv-targeted TRAIL mutants." in: Cell death & disease

, Vol. 5, pp. e1035, (2014) (PubMed).

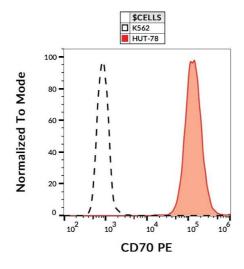
Hashimoto-Okada, Kitawaki, Kadowaki, Iwata, Morimoto, Hori, Uchiyama: "The CD70-CD27 interaction during the stimulation with dendritic cells promotes naive CD4(+) T cells to develop into T cells producing a broad array of immunostimulatory cytokines in humans." in:

International immunology, Vol. 21, Issue 8, pp. 891-904, (2009) (PubMed).

Kaufmann, Amariglio, Rosenthal, Hirsch, Many, Rechavi: "Proliferation response of leukemic cells to CD70 ligation oscillates with recurrent remission and relapse in a low-grade lymphoma." in: **Journal of immunology (Baltimore, Md.: 1950)**, Vol. 175, Issue 10, pp. 6940-7, (2005) (PubMed).

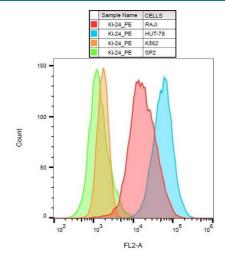
Israel, Pickles, Segal, Gerard, Kenney: "Enhancement of adenovirus vector entry into CD70-positive B-cell Lines by using a bispecific CD70-adenovirus fiber antibody." in: **Journal of virology**, Vol. 75, Issue 11, pp. 5215-21, (2001) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of HUT-78 and K562 cell lines with anti-human CD70 (Ki-24) PE.



Flow Cytometry

Image 2. Surface staining of several cell lines with anti-human CD70 (Ki-24) PE.