



1P-154-T100

## Monoclonal Antibody to CD70 Phycoerythrin (PE) conjugated (100 tests)

<b>Clone:</b>	Ki-24
<b>Isotype:</b>	Mouse IgG3
<b>Specificity:</b>	The mouse monoclonal antibody Ki-24 recognizes CD70, an approximately 50 kDa type II transmembrane glycoprotein expressed on activated lymphocytes and some B cell leukemias. Workshop Code: IV A109
<b>Regulatory Status:</b>	RUO
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	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.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

- References:**
- \*Kaufmann Y, Amariglio N, Rosenthal E, Hirsch YJ, Many A, Rechavi G: Proliferation response of leukemic cells to CD70 ligation oscillates with recurrent remission and relapse in a low-grade lymphoma. *J Immunol.* 2005 Nov 15;175(10):6940-7.
  - \*Trebing J, El-Mesery M, Schäfer V, Weisenberger D, Siegmund D, Silence K, Wajant H. CD70-restricted specific activation of TRAILR1 or TRAILR2 using scFv-targeted TRAIL mutants. *Cell Death Dis.* 2014 Jan 30;5:e1035.
  - \*Israel BF, Pickles RJ, Segal DM, Gerard RD, Kenney SC: Enhancement of adenovirus vector entry into CD70-positive B-cell Lines by using a bispecific CD70-adenovirus fiber antibody. *J Virol.* 2001 Jun;75(11):5215-21.
  - Kaufmann Y, Amariglio N, Rosenthal E, Hirsch YJ, Many A, Rechavi G: Proliferation response of leukemic cells to CD70 ligation oscillates with recurrent remission and relapse in a low-grade lymphoma. *J Immunol.* 2005 Nov 15;175(10):6940-7.
  - \*Hashimoto-Okada M, Kitawaki T, Kadowaki N, Iwata S, Morimoto C, Hori T, Uchiyama T: The CD70-CD27 interaction during the stimulation with dendritic cells promotes naïve CD4(+) T cells to develop into T cells producing a broad array of immunostimulatory cytokines in humans. *Int Immunol.* 2009 Aug;21(8):891-904.

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