



11-154-C100

## Monoclonal Antibody to CD70 Purified Antibody (0.1 mg)

<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>Application:</b>	Flow Cytometry
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<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.
<b>References:</b>	*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. <i>J Immunol.</i> 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. <i>Cell Death Dis.</i> 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. <i>J Virol.</i> 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. <i>J Immunol.</i> 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 naive CD4(+) T cells to develop into T cells producing a broad array of immunostimulatory cytokines in humans. <i>Int Immunol.</i> 2009 Aug;21(8):891-904.

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic  
Tel: +420 261 090 666 | Fax: +420 261 090 660 | [orders@exbio.cz](mailto:orders@exbio.cz) | [www.exbio.cz](http://www.exbio.cz)