

TECHNICAL DATA SHEET

CyFlow™ CD70 Purified Anti-Hu; Clone Ki-24

REF BR463667

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD70
Alternative Names	Ki-24, CD27L, TNFSF7
Clone	Ki-24
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG3
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	< no data >

Specificity

The mouse monoclonal antibody Ki-24 recognizes CD70 antigen, a 50 kDa type II transmembrane glycoprotein expressed on activated lymphocytes and some B cell leukemias.

Contact Information:

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD70 (TNFSF7, 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.

References

- 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. < PMID: 11333903 >
- 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. < PMID: 16272354 >
- 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. < PMID: 16272354 >
- 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. Int Immunol. 2009 Aug; 21(8):891-904. < PMID: 19556308 >

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- 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. < PMID: 24481449 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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