

AM26803PU-N**Monoclonal Antibody to CD70 - Purified**

Alternate names:	CD27 ligand, CD27L, CD27LG, TNFSF7, Tumor necrosis factor ligand superfamily member 7
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	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.
Uniprot ID:	P32970
NCBI:	NP_001243.1
GeneID:	970
Host / Isotype:	Mouse / IgG3
Recommended Isotype Controls:	AM03097PU-N
Clone:	Ki-24
Format:	State: Liquid Ig fraction Purification: Protein-A affinity chromatography (> 95% pure by SDS-PAGE) Buffer System: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Applications:	Flow cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes CD70, an approximately 50 kDa type II transmembrane glycoprotein expressed on activated lymphocytes and some B cell leukemias.
Species Reactivity:	Tested: Human
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.
General Readings:	1. 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. PubMed PMID: 16272354. 2. Trebing J, El-Mesery M, Schäfer V, Weisenberger D, Siegmund D, Silence K, et al. CD70-restricted specific activation of TRAILR1 or TRAILR2 using scFv-targeted TRAIL mutants. Cell Death Dis. 2014 Jan 30;5:e1035. doi: 10.1038/cddis.2013.555. PubMed PMID: 24481449.

3. 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. PubMed PMID: 11333903.
4. Hashimoto-Okada M, Kitawaki T, Kadowaki N, Iwata S, Morimoto C, Hori T, et al. 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. doi: 10.1093/intimm/dxp056. Epub 2009 Jun 25. PubMed PMID: 19556308.