



11-308-C100

## Monoclonal Antibody to CD27 Purified Antibody (0.1 mg)

<b>Clone:</b>	LT27
<b>Isotype:</b>	Mouse IgG2a
<b>Specificity:</b>	The antibody LT27 reacts with CD27 (T14), a 50-55 kDa type I transmembrane glycoprotein (member of the TNF-receptor superfamily) expressed on medullary thymocytes, peripheral T lymphocytes, some B lymphocytes and NK cells. HLDA V; WS Code T T-CD27.01
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human peripheral blood lymphocytes
<b>Species Reactivity:</b>	Human
<b>Application:</b>	Flow Cytometry Recommended dilution: 2 µg/ml
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by precipitation and 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>	CD27 is a transmembrane 55 kDa protein of the nerve growth factor-receptor family, expressed as a disulfide-linked homodimer on mature thymocytes, peripheral blood T cells and a subpopulation of B cells. Activation of T cells via TCR-CD3 complex results in upregulation of CD27 expression on the plasma membrane as well as in the release of its soluble 28-32 kDa form, sCD27, detected in the plasma, urine or spinal fluid. This sCD27 is an important prognostic marker of acute and chronic B cell malignancies. RgpA, a cysteine proteinase, although activating T cells through the protease-activated receptors (PARs), degrades CD27 and counteracts T cell activation mediated by CD27 and its ligand CD70.

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**Antibodies**

- References:**
- \*van Oers MH, Pals ST, Evers LM, van der Schoot CE, Koopman G, Bonfrer JM, Hintzen RQ, von dem Borne AE, van Lier RA: Expression and release of CD27 in human B-cell malignancies. *Blood*. 1993 Dec 1;82(11):3430-6.
  - \*Molica S, Vitelli G, Levato D, Crispino G, Dell'Olio M, Dattilo A, Matera R, Gandolfo GM, Musto P. CD27 in B-cell chronic lymphocytic leukemia. Cellular expression, serum release and correlation with other soluble molecules belonging to nerve growth factor receptors (NGFr) superfamily. *Haematologica*. 1998 May;83(5):398-402.
  - \*Kara IO, Sahin B, Gunesacar R: Expression of soluble CD27 and interleukins-8 and -10 in B-cell chronic lymphocytic leukemia: correlation with disease stage and prognosis. *Adv Ther*. 2007 Jan-Feb;24(1):29-40.
  - \*Yun LW, Decarlo AA, Hunter N: Blockade of protease-activated receptors on T cells correlates with altered proteolysis of CD27 by gingipains of *Porphyromonas gingivalis*. *Clin Exp Immunol*. 2007 Nov;150(2):217-29.
  - \*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).
  - \*Kanderova V, Kuzilkova D, Stuchly J, Vaskova M, Brdicka T, Fiser K, Hrusak O, Lund-Johansen F, Kalina T: High-resolution Antibody Array Analysis of Childhood Acute Leukemia Cells. *Mol Cell Proteomics*. 2016 Apr;15(4):1246-61.

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