

## anti-human CD27 PE/Dy590-conjugated

**PE/Dy590** - conjugated monoclonal antibody LT27 to human CD27

Cat-No: **21270277.5**

500 µl

**Clone:** LT27

**Specificity:** The antibody LT27 reacts with CD27 ( T14), a 50-55 kDa type I transmembrane glyco-protein (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

**Isotype subclass:** Mouse IgG2a

**Form:** The purified antibody is conjugated with tandem dye PE-Dynamics 590 (PE-Dy590) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 1% BSA and 0.09% sodium azide, pH 7.2

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4 °C. Avoid prolonged exposure to light.

**Application:** The reagent is designed for Flow Cytometry analysis.

**Background:** 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 cystein 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.

### References:

\*) van Oers MH, Pals ST, Evers LM, van der Schoot CE, Koopmann 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 and others.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

**ImmunoTools** Excellent Quality - Advantageously priced

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