

## CD27 antibody [O323] (PE)

## Cat. No. GTX01457-08

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	FCM
Reactivity	Human, Baboon, Cynomolgus monkey, Rhesus Monkey

References ( 417 )

Package

100 test

## PRODUCT

**Summary**

The O323 antibody reacts with human CD27 (TNFRSF7), a cell surface homodimer of  $\geq 55$  kDa subunits, which provides co-stimulatory signaling in support of the T cell (TCR) and B cell (BCR) receptors. By comparison with CD28, whose TCR co-stimulatory signal can trigger cell proliferation, CD27 signaling appears to promote cell survival and differentiation to effector / memory stages. Also in contrast with CD28, the CD27 receptor may be shed following interaction with its ligand CD70, which is typically expressed on activated dendritic cells, T cells and B cells. With respect to B cells, CD27 is considered to be a phenotypic marker for memory B cells. CD27 has been included within a group of phenotypic markers for identifying human B regulatory cells (Bregs), a cell type proposed to regulate CD4+ T cell proliferation and Foxp3 / CTLA-4 expression in Treg cells. The O323 antibody may be used for analysis of CD27 expression on peripheral T cells, and is frequently used in combination with antibodies for IgD and IgM to distinguish naïve vs. memory B cell populations. For identification of Breg cells, this antibody has been used in combination with antibodies for CD25, CD1d, IL-10 and TGF-beta. The antibody is also reported for cross-reactivity with Baboon, Cynomolgus and Rhesus CD27.

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
FCM	0.25 $\mu$ g (5 $\mu$ l) for $10^5$ - $10^8$ cells in 100 $\mu$ l sample per test

Not tested in other applications.

## Properties

Form	Liquid
Buffer	10mM NaH <sub>2</sub> PO <sub>4</sub> , 150mM NaCl, 0.1% Gelatin
Preservative	0.09% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. DO NOT FREEZE. Protect from light.
Concentration	0.05 mg/ml (Please refer to the vial label for the specific concentration.)
Purification	Purified by affinity chromatography From tissue culture supernatant
Conjugation	Phycoerythrin (PE) <a href="#">Wavelength</a>



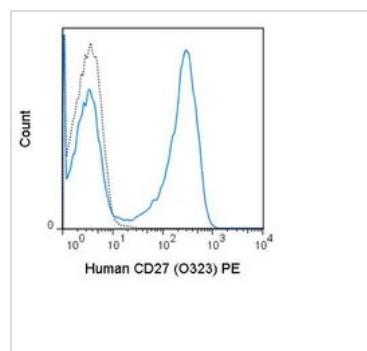
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**Note**

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

**DATA IMAGES****GTX01457-08 FCM Image**

FACS analysis of human peripheral blood lymphocytes using GTX01457-08 CD27 antibody [O323] (PE).

Solid line : primary antibody

Dashed line : isotype control

antibody amount : 0.25 µg (5 µl)



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