

CD27 antibody [O323]

Cat. No. GTX01457

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

References (417)
 Package
 100 µg

PRODUCT

Summary

The O323 antibody reacts with human CD27 (TNFRSF7), a cell surface homodimer of ≥ 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 | Assay dependent |

Not tested in other applications.

Properties

| | |
|----------------------|---|
| Form | Liquid |
| Buffer | 10mM NaH ₂ PO ₄ , 150mM NaCl |
| Preservative | 0.09% Sodium azide |
| Storage | Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. |
| Concentration | 0.5 mg/ml (Please refer to the vial label for the specific concentration.) |
| Purification | Purified by affinity chromatography From tissue culture supernatant |
| Purity | > 90% (determined by SDS-PAGE) |
| Conjugation | Unconjugated |



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Note

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