CD27 (O323) Mouse mAb (violetFluor[™] 450 Conjugate)



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Applications: FC-FP, FC-L	Reactivity:	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1 kappa	UniProt ID: #P26842	Entrez-Gene Id: 939
Product Usage Information		Application Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)			Dilution 1:20 1:20
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		CD27 (O323) Mouse mAb (violetFluor™ 450 Conjugate) recognizes endogenous levels of total CD27 protein. This antibody detects an epitope within the extracellular domain.			
Source / Purification		This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.			
Description		This Cell Signaling Technology antibody is conjugated to violetFluor™ 450 and tested in-house for direct flow cytometric analysis in human cells.			
Background		CD27 (TNFRSF7) is a transmembrane protein of the TNF receptor superfamily (TNFRSF). It is mainly expressed on lymphoid cells (also on early hematopoietic precursor cells in mice) (1,2). CD27 is considered a phenotypic marker for memory B cells and is also used to identify B regulatory (Breg) cells (3,4). It is constitutively expressed on naïve CD4 and CD8 T cells and its expression is further upregulated upon T cell activation. CD27 is one of the two most important co-stimulatory receptors for T cell priming (the other one is CD28). While CD28 co-stimulatory signal mainly triggers cell proliferation, CD27 co-stimulatory signal primarily promotes cell survival and differentiation (5,6). Upon binding to its ligand CD70, CD27 activates the NF-kB and JNK signaling pathways through TNFR associated factors (TRAFs), the adaptor molecules that are associated with CD27 cytoplasmic tail domain. Upon activation, CD27 is shed from the cell surface and soluble CD27 is used as a marker of T cell activation (7,8).			
Background Refere	1. So, T. et al. (2006) Int J Hematol 83, 1-11. 2. Waight, J.D. et al. (2017) Hum Antibodies 25, 87-109. 3. Agematsu, K. (2000) Histol Histopathol 15, 573-6. 4. Bouaziz, J.D. et al. (2012) Curr Mol Med 12, 519-27. 5. Croft, M. Cytokine Growth Factor Rev 14, 265-73. 6. Acuto, O. and Michel, F. (2003) Nat Rev Immunol 3, 939-51. 7. Lens, S.M. et al. (1998) Semin Immunol 10, 491-9. 8. van de Ven, K. and Borst, J. (2015) Immunotherapy 7, 655-67.				
Species Reactivity		Species reactivity is det	ermined by testing in at lea	ast one approved ap	plication (e.g., western blot).

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Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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