

CD27 Monoclonal Antibody (LG.7F9), PE

Catalog NumberA16198

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Armenian hamster / IgG	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	LG.7F9	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	CD27 antibody was raised against mouse CD27		
Conjugate	PE		
Form	Liquid		
Concentration	0.2 mg/mL		
Storage Conditions	4° C		

Background/Target Information

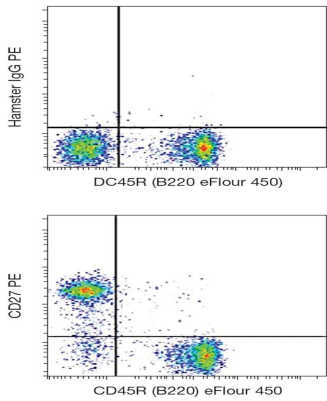
CD27 is a 50 kDa member of the tumor necrosis factor (TNF) receptor superfamily that includes CD40 and CD30. The TNF superfamily members are known for the regulation of cell proliferation and death. In contrast to the expression of other TNFR/TNF family members, expression of CD27 and its ligand CD70 is predominantly confined to lymphocytes. High expression levels of CD27 appear to be dependent on proper ligation of antigen receptors. CD70 expression requires additional co-stimulatory and/or pro-inflammatory signals. CD27 is 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. Soluble CD27 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. CD27-binding protein (SIVA), a proapoptotic protein, can bind to this receptor and is thought to play an important role in the apoptosis induced by this receptor. Diseases associated with CD27 dysfunction include Lymphoproliferative Syndrome 2 and Autosomal Recessive Lymphoproliferative Syndrome.

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CD27 Antibody (A16198) in Flow

Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) eFluor® 450 and 0.06 µg of Armenian Hamster IgG Isotype Control PE (top) or 0.06 µg of Anti-CD27 PE (bottom, Product # A16198). Total viable cells were used for analysis.

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