

CD19 (PTR1382) recombinant mouse mAb

Catalog No :	YM4053
Reactivity :	Human
Applications :	FCM;ELISA
Target :	CD19
Gene Name :	CD19
Protein Name :	B-lymphocyte antigen CD19 (B-lymphocyte surface antigen B4) (Differentiation antigen CD19) (T-cell surface antigen Leu-12) (CD antigen CD19)
Human Gene Id :	930
Human Swiss Prot No :	P15391
Immunogen :	Purified recombinant Human CD19
Specificity :	This recombinant monoclonal antibody can detects endogenous levels of CD19 protein.
Formulation :	Phosphate-buffered solution
Source :	Monoclonal,Mouse,IgG1,kappa
Dilution :	ELISA 1:5000-100000;FCM 1-2µg/Test
Purification :	Recombinant Expression and Affinity purified
Concentration :	Please check the information on the tube
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Background :	CD19 molecule(CD19) Homo sapiens Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors.This gene encodes a cell surface

molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. [provided by RefSeq, Jul 2008]

Function :

Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens . Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores . Is not required for early steps during B cell differentiation in the blood marrow . Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges . Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge .

Subcellular Location :

Cell membrane ; Single-pass type I membrane protein . Membrane raft ; Single-pass type I membrane protein .

Expression :

Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:24631). Detected on blood B cells (at protein level) (PubMed:24631, PubMed:1667271).

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