

CD19 Monoclonal Antibody

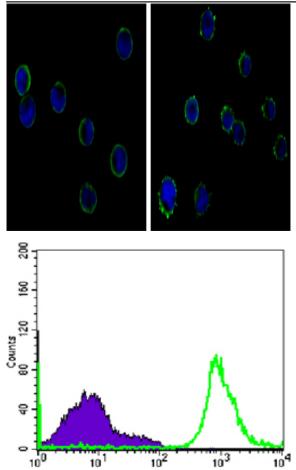
Catalog No :	YM0109
Reactivity :	Human
Applications :	IF;FCM;ELISA
Target :	CD19
Fields :	>>PI3K-Akt signaling pathway;>>Hematopoietic cell lineage;>>B cell receptor signaling pathway;>>Epstein-Barr virus infection;>>Primary immunodeficiency
Gene Name :	CD19
Protein Name :	B-lymphocyte antigen CD19
Human Gene Id :	930
Human Swiss Prot No :	P15391
Mouse Swiss Prot	P25918
No : Immunogen :	Purified recombinant fragment of human CD19 expressed in E. Coli.
Specificity :	CD19 Monoclonal Antibody detects endogenous levels of CD19 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Cell Pathway :	Hematopoietic cell lineage;B_Cell_Antigen;Primary immunodeficiency;



P References :	1. Rie, M.A. de, J. of Immunol. Methods, 1987. 102: 187.
	2. Rie, M.A. de, Leukaemia Research, 1988. 12: 135.
Background :	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 :	disease:Defects in CD19 are a cause of hypogammaglobulinemia [MIM:107265].,function:Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.,online information:CD19 mutation db,PTM:Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated on tyrosine following B- cell activation.,similarity:Contains 2 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Forms a complex with CD21, CD81 and CD225 in the membrane of mature B cells. Interacts with VAV. Interacts with GRB2 and SOS when phosphorylated on Tyr-348 and/or Tyr-378. Interacts with PLCG2 when phosphorylated on Tyr-409.,
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:2463100). Detected on blood B cells (at protein level) (PubMed:2463100, PubMed:16672701).
Sort :	3434
No4 :	1
Host :	Mouse
Modifications :	Unmodified

Products Images





Immunofluorescence analysis of HL-60(left) and K562 (right) cells using CD19 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.

Flow cytometric analysis of Raji cells using CD19 Monoclonal Antibody (green) and negative control (purple).