

CD19 Monoclonal Antibody

Catalog No :	YM0108
Reactivity :	Human
Applications :	WB;IHC;IF;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 No :	P25918
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 :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 61kD

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.

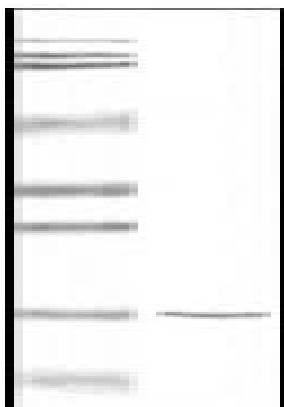
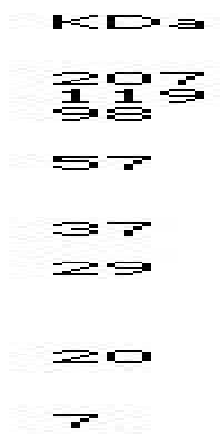
Background : Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface 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.,

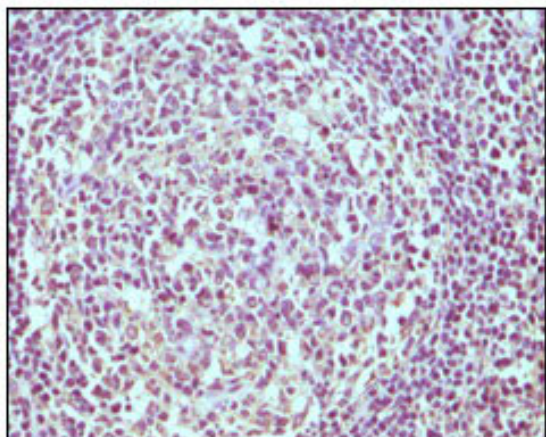
Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Membrane raft ; Single-pass type I membrane protein .

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).

Products Images



Western Blot analysis using CD19 Monoclonal Antibody against CD19 recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human normal lymph node, showing cytoplasmic localization with DAB staining using CD19 Monoclonal Antibody.