

CD19 Monoclonal Antibody

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| 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.

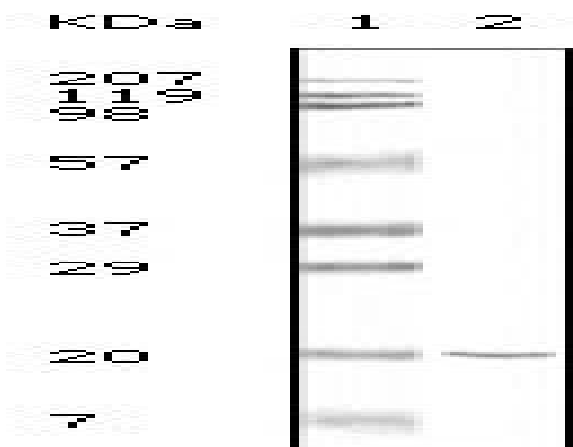
Background : Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface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

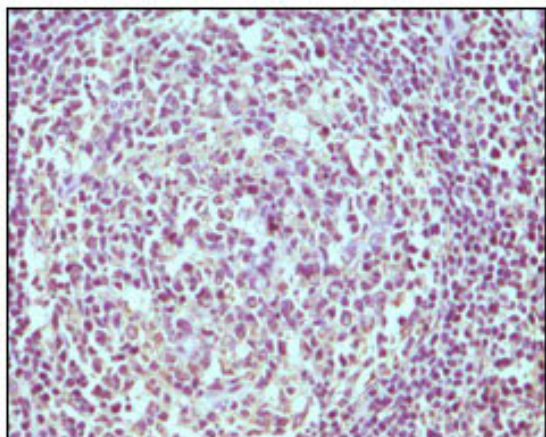
Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Membrane raft ; Single-pass type I membrane protein .

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.