

## CD19 (PTR2046) mouse mAb

<b>Catalog No :</b>	YM4248
<b>Reactivity :</b>	Only Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	CD19
<b>Gene Name :</b>	CD19
<b>Protein Name :</b>	B-lymphocyte antigen CD19 (B-lymphocyte surface antigen B4) (Differentiation antigen CD19) (T-cell surface antigen Leu-12) (CD antigen CD19)
<b>Human Gene Id :</b>	930
<b>Human Swiss Prot No :</b>	P15391
<b>Mouse Gene Id :</b>	12478
<b>Mouse Swiss Prot No :</b>	P25918
<b>Immunogen :</b>	Synthesized peptide derived from human CD19 AA range: 200-300
<b>Specificity :</b>	This antibody detects endogenous levels of CD19 at Only Human
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Mouse, monoclonal
<b>Dilution :</b>	WB 1:500-2000,ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 61kD

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**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],

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**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 .

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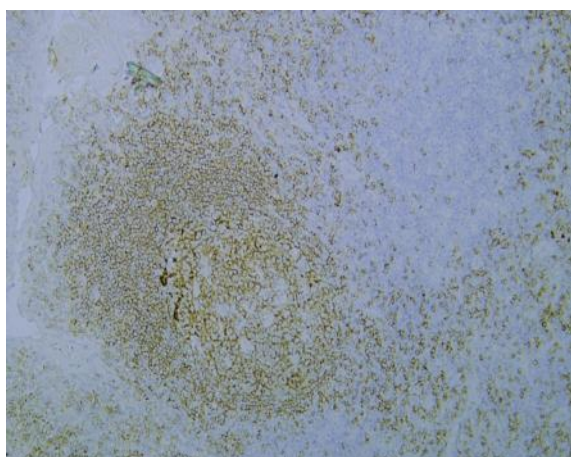
**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein . Membrane raft ; Single-pass type I membrane protein .

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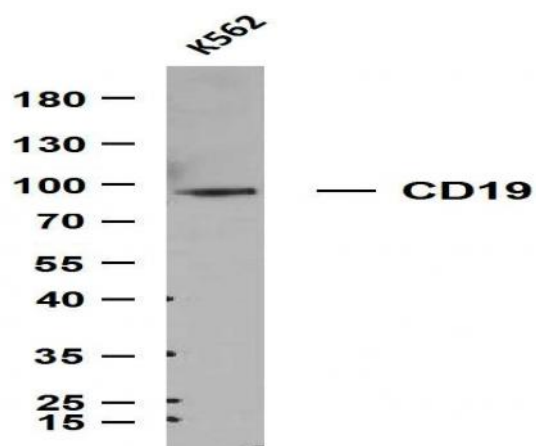
**Expression :** Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100). Detected on blood B cells (at protein level) (PubMed:2463100, PubMed:16672701).

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## Products Images



Human tonsil tissue was stained with Anti-CD19 (PTR2046) Antibody



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CD19 (PTR2046) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Predicted band size: 61kDa Observed band size: 72kDa