



CD19 Rat monoclonal antibody

Catalog: MB65831

Host: Rat

Reactivity: Mouse

BackGround:

CD19 is a 95 kDa coreceptor which amplifies the signaling cascade in B cells. On the B cell surface, CD19 associates with CD21, CD81, and Leu-13 to exert its function. The cytoplasmic tail of CD19 has nine conserved tyrosine residues playing critical roles in CD19 mediated function by coupling signaling molecules to the receptor. After B cell receptor or CD19 ligation, Tyr531 and Tyr500 of CD19 are progressively phosphorylated. This phosphorylation enables the coupling of PI3 kinase and Src family tyrosine kinase to CD19 and activates the PI3K and Src signaling pathways. Coligation of B cell receptor and CD19 also promotes Tyr409 phosphorylation in CD19. The phosphorylation at these sites enables its binding to Vav and mediates elevated intracellular calcium response, as well as the JNK pathway.

The 1D3 clone is a widely used as a phenotypic marker for CD19 expression on the surface of murine B cells and subsets of dendritic cells.

Product:

Rat IgG2a kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.

Molecular Weight:

~ 60 kDa

Swiss-Prot:

P25918

Purification&Purity:

The monoclonal antibody was affinity-purified from rat antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

IF (1/50 - 1/200)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes mouse CD19

DATA:

Note:

For research use only, not for use in diagnostic procedure.

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