



## CD22 monoclonal antibody

Catalog: MB30039

Host: Mouse

Reactivity: Mouse

### BackGround:

B-cell receptor CD22: Most highly expressed siglec (sialic acid-binding immunoglobulin-like lectin) on B-cells that plays a role in various aspects of B-cell biology including differentiation, antigen presentation, and trafficking to bone marrow. Binds to alpha 2,6-linked sialic acid residues of surface molecules such as CD22 itself, CD45 and IgM in a cis configuration. Can also bind to ligands on other cells as an adhesion molecule in a trans configuration. Acts as an inhibitory coreceptor on the surface of B-cells and inhibits B-cell receptor induced signaling, characterized by inhibition of the calcium mobilization and cellular activation. Mechanistically, the immunoreceptor tyrosine-based inhibitory motif domain is phosphorylated by the Src kinase LYN, which in turn leads to the recruitment of the protein tyrosine phosphatase 1/PTPN6, leading to the negative regulation of BCR signaling. If this negat...

### Product:

Mouse IgG1 kappa. 1mg/ml in PBS, pH 7.3, and 0.02% sodium azide.

### Molecular Weight:

~97.2 kDa

### Swiss-Prot:

### Purification&Purity:

The antibody was purified by affinity chromatography.

### Applications:

IF/ICC (1/50 - 1/200), FC (1/500 - 1/2000)

### Storage&Stability:

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

### Specificity:

Recognizes mouse CD22

### DATA:

Western blot analysis of UGT2B7 expression in HEK293T (A) whole cell lysates.

Immunofluorescent analysis of UGT2B7 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

### Note:

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

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