

Rat CD19 Antibody

Recombinant Monoclonal Mouse IgG_{2B} Clone # 771404R Catalog Number: MAB7489R

| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Rat | |
| Specificity | Detects rat CD19 in direct ELISAs. | |
| Source | Recombinant Monoclonal Mouse IgG _{2B} Clone # 771404R | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant rat CD19 Met1-Gly287 Accession # NP_001013255 | |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. | |

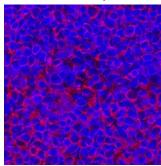
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|----------------------|------------------------------|-----------|
| Immunohistochemistry | 5-25 μg/mL | See Below |

DATA

Immunohistochemistry



CD19 in Rat Spleen. CD19 was detected in immersion fixed frozen sections of rat spleen using Mouse Anti-Rat CD19 Monoclonal Antibody (Catalog # MAB7489R) at 25 µg/mL overnight at 4 °C. Tissue was stained using the NorthemLights № 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CD19 (also surface antigen B4 and Leu12) is a 95-110 kDa member of the Immunoglobulin superfamily of molecules. It is expressed by B cells, and interacts with CD21 for the purpose of reducing the threshold of the antigen signal needed to with activate the BCR. CD19 ligation also promotes B cell:follicular dendritic cell (FDC) interaction and B cell proliferation in the FDC zone of the spleen. Mature rat CD19 is a 529 amino acid (aa) type I transmembrane glycoprotein (aa 19-547). Based on mouse, it contains a 269 aa extracellular region (aa 19-287) plus a 236 aa cytoplasmic domain. The extracellular region possesses two C2-type Ig-like domains (aa 20-113 and 171-271) and one utilized phosphorylation site at Ser225. The cytoplasmic domain contains five potential Tyr phosphorylation sites. There is one splice form that shows a two aa substitution after Gly489. Over aa 19-287, rat CD19 shares 88% and 57% aa sequence identity with mouse and human CD19, respectively.

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