

Novocastra™ Lyophilized Mouse Monoclonal Antibody CD19

Product Code: NCL-CD19-2

Intended Use	FOR RESEARCH USE ONLY.
Specificity	Human CD19 antigen.
Clone	4G7/2E
Ig Class	IgG1
Antigen Used for Immunizations	Human chronic lymphocytic leukemia cells.
Hybridoma Partner	Mouse myeloma (P3-x63-Ag.653).
Preparation	Lyophilized tissue culture supernatant containing 15 mM sodium azide. Reconstitute with 1 mL or 0.1 mL of sterile distilled water as indicated on vial label.
Effective on Frozen Tissue	Yes. Acetone fixation recommended.
Effective on Paraffin Wax Embedded Tissue	No
Recommendations on Use	Immunohistochemistry: Typical working dilution 1:100–1:200. 60 minutes primary antibody incubation at 25 °C. Standard ABC technique. Also effective in indirect flow cytometry. Western Blotting: Not recommended.
Positive Controls	Immunohistochemistry: Tonsil.
Staining Pattern	Membrane.
Storage and Stability	Store unopened lyophilized antibody at 4 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 4 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
General Overview	The CD19 molecule is a type I integral membrane glycoprotein with a molecular weight of 95 kD. This antigen is expressed by all normal B cells including early B cells. It is also found on follicular dendritic cells, early cells of myelomonocytic lineage and most stabilised B cell lines. The CD19 antigen is not present on T cells or on normal granulocytes.
General References	Reichert T, DeBruyère M, Denys V, et al.. <i>Clinical Immunol. Immunopathol.</i> 60: 190–208 (1991). Moldenhauer G, Dörken B, Schwartz R, et al.. In: Reinherz E L, Haynes B F, Nadler L M, Bernstein I D, eds. <i>Leukocyte Typing II: Human B Lymphocytes</i> . New York: Springer-Verlag. 61–97 (1986). Meeker T C, Miller R A, Link M P, et al.. <i>Hybridoma.</i> 3: 305–320 (1984).

