

# Novocastra™ Liquid Mouse Monoclonal Antibody CD19

**Product Code: NCL-L-CD19-163**

<b>Intended Use</b>	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
<b>Specificity</b>	Human CD19.
<b>Clone</b>	BT51E
<b>Ig Class</b>	IgG2b
<b>Antigen Used for Immunizations</b>	A prokaryotic fusion protein containing part of the C-terminal region of the human CD19 molecule.
<b>Hybridoma Partner</b>	Mouse myeloma (p3-NS1-Ag4-1).
<b>Preparation</b>	Liquid tissue culture supernatant containing sodium azide. Volume as indicated on vial label.
<b>Effective on Frozen Tissue</b>	Not evaluated.
<b>Effective on Paraffin Wax Embedded Tissue</b>	Yes
<b>Recommendations on Use</b>	Immunohistochemistry on paraffin sections. <b>Heat Induced Epitope Retrieval (HIER):</b> Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH 6. <b>Suggested dilution:</b> 1:50 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. <b>Visualization:</b> Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems web site, <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a> <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u> <b>Western Blotting:</b> Typical working dilution 1:50–1:250
<b>Positive Controls</b>	Immunohistochemistry: Tonsil. Western Blotting: Bristol 8.
<b>Staining Pattern</b>	Membrane.
<b>Storage and Stability</b>	Store at 2–8 °C. Do not freeze. Return to 2–8 °C immediately after use. Do not use after expiration date indicated on the vial label. Storage conditions other than those specified above must be verified by the user.
<b>Warnings and Precautions</b>	This reagent has been prepared from the supernatant of cell culture. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a>





**B I O S Y S T E M S**

**General Overview**

CD19 is a member of the immunoglobulin superfamily and has two Ig-like domains. It is a single chain glycoprotein present on the surface of B-lymphocytes and follicular dendritic cells of the hematopoietic system. CD19 is a critical regulator in B-cell development, activation and differentiation. On B-cells, CD19 associates with CD21, CD81 and CD225 (Leu-13) forming a signal transduction complex. CD19 is expressed from the earliest recognizable B lineage during development to B cell differentiation, but is lost on maturation to plasma cells.

**General References**

Fujimoto M and Sato S. *Journal of Dermatological Science*. 46:1–9 (2007).  
Otero D, Anzelon A and Rickert R. *The Journal of Immunology*. 170: 73–83 (2003).  
Fujimoto M, Poe J, Inaoki M, et al. *Seminars in Immunology*. 10:267–277 (1998)..