

# Novocastra™ Liquid Mouse Monoclonal Antibody CD4

**Product Code: NCL-L-CD4-368**

<b>Intended Use</b>	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
<b>Specificity</b>	Human CD4 antigen.
<b>Clone</b>	4B12
<b>Ig Class</b>	IgG1, kappa
<b>Antigen Used for Immunizations</b>	Prokaryotic recombinant protein corresponding to the external domain of the CD4 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>	Yes. Acetone fixation recommended.
<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 9. <b>Suggested dilution:</b> 1:100 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 1:250 - 1:500.
<b>Positive Controls</b>	Immunohistochemistry: Tonsil. Western Blotting: Sup-T1 cell line.
<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**

The CD4 molecule (T4) is a single chain transmembrane glycoprotein with a molecular weight of 59 kD. The CD4 antigen is found on a T cell subset (helper/inducer) representing 45 per cent of peripheral blood lymphocytes. It is also present on 80 per cent of thymocytes and at a lower level on monocytes.

**General References**

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