

Novocastra™ Liquid Mouse Monoclonal Antibody CD8

Product Code: NCL-L-CD8-4B11

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human CD8 antigen.
Clone	4B11
Ig Class	IgG2b
Antigen Used for Immunizations	Peptide corresponding to the alpha chain cytoplasmic portion of the human CD8 molecule.
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
Preparation	Liquid tissue culture supernatant containing sodium azide. Volume as indicated on vial label.
Effective on Frozen Tissue	Yes. Acetone fixation recommended.
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	Immunohistochemistry on paraffin sections. Heat Induced Epitope Retrieval (HIER): Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH 9. Suggested dilution: 1:50 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. Visualization: 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, www.LeicaBiosystems.com <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u> Western Blotting: Typical working dilution 1:25.
Positive Controls	Immunohistochemistry: Prostate. Western Blotting: Sup-T1 cell line.
Staining Pattern	Membrane.
Storage and Stability	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.
Warnings and Precautions	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 www.LeicaBiosystems.com





B I O S Y S T E M S

General Overview

The CD8 molecule is composed of two chains and has a molecular weight of 32 kD. It is found on a T cell subset of normal cytotoxic/suppressor cells which make up approximately 20 to 35 per cent of human peripheral blood lymphocytes. The CD8 antigen is also detected on natural killer cells, 80 per cent of thymocytes, on a subpopulation of 30 per cent of peripheral blood null cells and 15 to 30 per cent of bone marrow cells.

General References

Kemp RA, Black MA, McCall J, et al. *Journal of experimental & clinical cancer research*. 2011;30(1):78
Michel S, Benner A, Tariverdian M, et al. *British journal of cancer*. 2008;99(11):1867-1873
Williamson SLH, Steward M, Milton I, et al. *American Journal of Pathology*. 1998;152(6):1421-1426.