

Novocastra™ Liquid Mouse Monoclonal Antibody CD10

Product Code: NCL-L-CD10-270

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human CD10 molecule, also known as common acute lymphocytic leukemia antigen (CALLA).
Clone	56C6
Ig Class	IgG1
Antigen Used for Immunizations	Prokaryotic recombinant fusion protein corresponding to the external domain of the CD10 glycoprotein.
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 6. Suggested dilution: 1:100 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 1:50–1:100.
Positive Controls	Immunohistochemistry: Tonsil. Western Blotting: Placenta.
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



General Overview

CD10 is a 100 kD cell surface metalloendopeptidase called neprilysin which inactivates a variety of biologically active peptides. It was initially identified as the common acute lymphoblastic leukemia antigen (CALLA) and considered to be tumor-specific. Subsequent studies, however, have shown that CD10 is expressed on the surface of a wide variety of normal and neoplastic cells. CD10 has been identified on the surface of normal early lymphoid progenitor cells, immature B cells within adult bone marrow and germinal centre B cells within lymphoid tissue. It is also expressed in various non-lymphoid cells and tissues, such as breast myoepithelial cells, bile canaliculi, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells.

General References

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