Novocastra™ Liquid Mouse Monoclonal Antibody CD7

Product Code: NCL-L-CD7-580

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human CD7 antigen.
Clone	LP15
Ig Class	IgG2b
Antigen Used for Immunizations	Prokaryotic recombinant fusion protein corresponding to a portion of the extracellular domain of the human CD7 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	Not tested.
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 The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms. **Western Blotting:** Not recommended.
Positive Controls	Immunohistochemistry: Tonsil.
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

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BIOSYSTEMS

General Overview

The CD7 molecule is a membrane-bound glycoprotein of 40 kD and is the earliest T cell specific antigen to be expressed in lymphocytes. CD7 antigen is also the only early marker to persist throughout differentiation. The function and role of the CD7 molecule has not yet been identified, although the activation of T cells with gamma/delta receptors has been proposed based on mAb-induced activation. CD7 antigen is reported to be found on the majority of peripheral blood T cells, most natural killer cells and thymocytes.

General References

Leong FJW-M and Leong AS-Y. The Journal of Histotechnology. 2002; 25(4):215-227.
Ormsby A, Bergfeld WF, Tubbs RR et al. Journal of the American Academy of Dermatology. 2001; 45(3):405-413.