

# Novocastra™ Liquid Mouse Monoclonal Antibody p80 (Anaplastic Lymphoma Kinase)

**Product Code: NCL-L-ALK**

<b>Intended Use</b>	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
<b>Specificity</b>	Human ALK protein and C-terminal ALK fusion proteins containing the immunized target sequence.
<b>Clone</b>	5A4
<b>Ig Class</b>	IgG1
<b>Antigen Used for Immunizations</b>	Prokaryotic recombinant protein corresponding to a region which spans the tyrosine kinase catalytic domain and part of the C-terminus of the NPM-ALK transcript (419-520 amino acids).
<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> 1:200 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> Not recommended
<b>Positive Controls</b>	Immunohistochemistry: a proportion of anaplastic large cell lymphomas.
<b>Staining Pattern</b>	Cytoplasmic and/or nuclear.
<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>General Overview</b>	p80 is encoded by a hybrid gene that occurs as a result of the chromosomal translocation, t(2;5)(p23;q35). The protein consists of the amino terminus of the nucleophosmin (NPM) gene fused to the catalytic domain of anaplastic lymphoma kinase (ALK). Full-length ALK is a 1620 amino acid protein that exhibits 57% amino acid identity to leukocyte tyrosine kinase (LTK). The mature form of ALK is a 200 kD glycosylated single chain molecule that occurs on the surface of cell membranes and probably acts as a ligand receptor.





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

**General References**

Liu A, Sugisaki Y, Hosone M, et al. *Acta Histochemica et Cytochemica*. 2004; 37(1):21-30.  
Li X-Q, Hisaoka M, Shi D-R, et al. *Human Pathology*. 2004; 35:711-721.

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