

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

Product Code: NCL-L-ALK

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human ALK protein and C-terminal ALK fusion proteins containing the immunized target sequence.
Clone	5A4
Ig Class	IgG1
Antigen Used for Immunizations	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).
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 evaluated
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: 1:200 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: Not recommended
Positive Controls	Immunohistochemistry: a proportion of anaplastic large cell lymphomas.
Staining Pattern	Cytoplasmic and/or nuclear.
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	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.



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.

