

ALK Protein (ALK-1)

For In Vitro Diagnostic Use (IVD)

English: Instructions For Use

Presentation

Anti-ALK Protein is a mouse monoclonal antibody from supernatant diluted in tris buffered saline, pH 7.3-7.7, with protein base, and preserved with sodium azide.

Applications

ALK-1 is a novel fusion protein which is detected in 60% of Anaplastic Large Cell Lymphomas and has proven to indicate improved prognosis in the ALK-1 (+) group.

Reactivity

Paraffin, frozen

Control

Anaplastic large cell lymphoma

Visualization

Cytoplasmic, nuclear

Stability

Up to 36 months; store at 2-8°C

Isotype

IgG₃/K

Antibody color does not affect performance

Description	Cat. No.	Dilution/Comments
0.1 ml, concentrate	204M-14	1:25 - 1:100*
0.5 ml, concentrate	204M-15	1:25 - 1:100*
1 ml, concentrate	204M-16	1:25 - 1:100*
1 ml, prediluted	204M-17	Ready to use
7 ml, prediluted	204M-18	Ready to use
Positive control slides	204S	5 slides per pack

prediluted

concentrate

Preparation and Pretreatment

1. Cut 3-4 µm section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58°C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques using Cell Marque's Trilogy™ in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

Recommended Protocol for Staining at Room Temperature Using CytoScan™ BSA Detection System

1. Apply the antibody and incubate for 30 - 60 minutes; rinse.
2. Apply the link and incubate for 10 minutes; rinse.
3. Apply the label and incubate for 10 minutes; rinse.
4. Apply ample amount of chromogen and incubate for 1 - 10 minutes; rinse.
5. Dehydrate and coverslip.

Recommended Protocol for Staining at Room Temperature Using PolyScan™ Polymer Detection System

1. Apply the antibody and incubate for 30 - 60 minutes; rinse.
2. Apply the PolyScan™ Polymer Rabbit/Mouse Detection System for 30 minutes; rinse.
3. Apply ample amount of chromogen and incubate for 1 - 10 minutes; rinse.
4. Dehydrate and coverslip.

References

1. Detection of T(2:5) in Anaplastic Large Cell Lymphoma. Comparison of Immunohistochemical studies, FISH, and Rt-PCR in paraffin-embedded tissue. Cataldo KA, et al: Am J Surg Pathol 32(1):1386-1392, 1999
2. Anaplastic Large Cell Lymphoma: A distinct molecular pathologic entity. A reappraisal with special reference to p80 NPM/Alk expression. Nakamura S, Shiota M, et al. Am J Surg Pathol 21(12):1420-1432, 1997
3. Alk expression defines a distinct group of T/Null lymphomas ("ALK Lymphomas") with a wide morphologic spectrum. Falini B, Bigerna B, et al. Am J pathol 153(3) Sept. 1998 P. 875-886

*The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.