



Qty: 100 µg/200 µl
Mouse anti-ALK
Catalog No. 35-4300
Lot No.

Mouse anti-ALK (Nucleophosmin-Anaplastic Lymphoma Kinase, p80)

FORM

This monoclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 4C5B8

ISOTYPE: Mouse IgG₁

IMMUNOGEN

Recombinant protein derived from the human ALK protein.

SPECIFICITY

This antibody detects the ~80 kDa ALK protein. Cross-reactivity with related proteins has not been observed.

REACTIVITY

This antibody reacts specifically with the human ALK protein. Reactivity was confirmed by Western blot analysis of extracts derived from T cell lines with the NPM-ALK translocation, including Karpas 299 and TS cells. Reactivity with other species has not been tested.

Sample	Western Blotting	Immuno-precipitation
Human	+++	++
Immunogen	+++	NA

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable NA)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunoprecipitation: 5-10 µg/IP reaction

Western Blotting: 1-3 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI354300

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BACKGROUND

Anaplastic large-cell lymphoma (ALCL), an aggressive subtype of non-Hodgkin's lymphoma, is characterized by CD30⁺ large neoplastic cells and frequently contains the (2:5)(p23:g35) translocation.⁽¹⁾ The (2:5) translocation results in the production of a chimeric 80 kDa protein, NPM-ALK (Nucleophosmin-Anaplastic Lymphoma Kinase) or p80. However, ALK has also been found in cases of large B-cell lymphomas that lack the t(2:5).⁽²⁾ The ALK⁺ subset of ALCL has been studied in several recent papers.⁽³⁻¹⁰⁾ It has been proposed that ALK⁺ ALCL is a separate clinicopathologic entity, ALK lymphoma, that is distinct from ALK-ALCL.^(6,7,9) Significantly, it has been reported that ALK lymphoma has a different prognosis than ALK-ALCL.⁽⁸⁻¹⁰⁾

REFERENCES

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3. Pulford, K. et al; *Am J Pathol.* 154:1657-1663 (1999).
4. Kinney, M.C. and Kadin, M.E., *Am J Clin Pathol.* 111 (Suppl 1) S56-67 (1999).
5. Chan, J. K. *Adv Anat Pathol.* 5: 281-313 (1998).
6. Benharroch, D. et al; *Blood* 91 (6): 2076-2084 (1998).
7. Falini, B. et al; *Am J. Pathol.* 153(3):875-886 (1998).
8. Falini, B. et al; *Blood* 93(8):2697-2706 (1999).
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10. Gascoyne, R.D., et al; *Blood* 93:3913-3921 (1999).

RELATED PRODUCTS

Product	Form	PAD/Clone	Cat. No.
Rb x ALK	Purified (vs. aa 428-685)	ZAL4	51-3900
Ms x CD30 (Ki-1)	Predilute for Histology	Ber-H2	08-0155
Ms x CD30 (Ki-1)	2 nd Gen Predilute for Histology	Ber-H2	08-1155

PAD: Polyclonal antibody designation

Product	Conjugate	Cat. No.
Goat x Rabbit IgG (H+L) (ZyMAX™ Grade)	Purified	81-6100
	FITC	81-6111
	TRITC	81-6114
	Cy™3	81-6115
	Cy™5	81-6116
	HRP	81-6120
	AP	81-6122
	Biotin	81-6140
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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