

Technical Data Sheet

Purified Mouse Anti-Human NPM-ALK/ALK

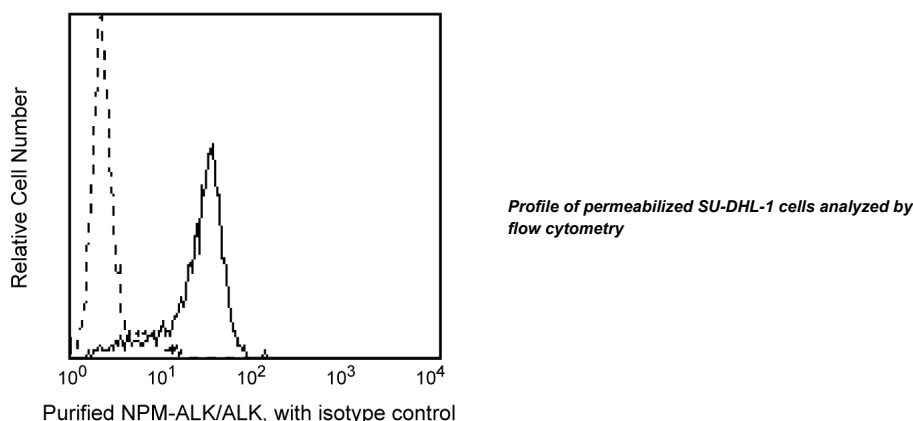
Product Information

Material Number:	559254
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	ALK1
Isotype:	Mouse IgG3, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with NPM-ALK, a chimeric gene product of approximately 80 kDa, which is the result of t(2;5)(p23;q35) chromosomal translocation. The gene at 5q35 encodes for the cell cycle-regulated nucleolar protein nucleophosmin (NPM), and the gene at 2p23 encodes a novel receptor tyrosine kinase, anaplastic lymphoma kinase (ALK). The 2;5 translocation results in the expression of NPM-ALK protein, or p80, comprised of the N-terminal portion of NPM (about 40% of the molecule) linked to the entire intracellular portion of ALK. ALK1 antibody recognizes a formalin resistant epitope in both the NPM-ALK chimeric and the 200 kDa normal human ALK proteins. Cytoplasmic and nuclear expression of NPM-ALK is seen in t(2;5)+ cell lines SU-DHL-1 and Karpas 299.

This antibody is routinely tested by flow cytometric analysis and fluorescence microscopy. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4° C.

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested
Fluorescence microscopy	Tested During Development
Immunohistochemistry-paraffin	Tested During Development

Recommended Assay Procedure:

We recommend to use the Cytotfix/cytoperm solution (Cat. No. 554714) for the cell fixation and permeabilization. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554714	BD Cytotfix/Cytoperm Fixation/Permeablization Kit	250 tests	(none)
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
555577	Purified Mouse IgG3 κ Isotype Control	0.1 mg	J606

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmlingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Morris SW, Kirstein MN, Valentine MB, et al. Fusion of a kinase gene, ALK, to a nucleolar protein gene, NPM, in non-Hodgkin's lymphoma. *Science*. 1994; 263(5151):1281-1284.(Biology)

Pittaluga S, Wlodarska I, Pulford K, et al. The monoclonal antibody ALK1 identifies a distinct morphological subtype of anaplastic large cell lymphoma associated with 2p23/ALK rearrangements. *Am J Pathol*. 1997; 151(2):343-351.(Biology)

Pulford K, Lamant L, Morris SW, et al. Detection of anaplastic lymphoma kinase (ALK) and nucleolar protein nucleophosmin (NPM)-ALK proteins in normal and neoplastic cells with the monoclonal antibody ALK1. *Blood*. 1997; 89(4):1394-1404.(Biology)