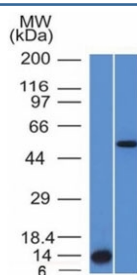


## Anaplastic Lymphoma Kinase Antibody / ALK [clone ALK/1503] (V5625)

Catalog No.	Formulation	Size
V5625-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5625-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5625SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	ALK/1503
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	Q9UM73
<b>Localization</b>	Cell membrane
<b>Applications</b>	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-3ug/ml Western Blot : 2-4ug/ml
<b>Limitations</b>	This Anaplastic Lymphoma Kinase antibody is available for research use only.



Western blot testing (A) recombinant protein and (B) human HepG2 cell lysate using Anaplastic Lymphoma Kinase antibody (clone ALK/1503). Predicted molecular weight ~180 kDa but may be observed at higher molecular weights due to glycosylation. Caspase 3 induced cleavage results in an ~60 kDa intracellular ALK fragment.

## Description

The wild-type anaplastic lymphoma kinase (ALK) protein is a 200kDa transmembrane receptor tyrosine kinase. Its expression is restricted to a few scattered cells in the nervous system (some glial cells and neurons, and a few endothelial cells and pericytes). The hybrid gene, NPM-ALK, created by the t(2;5)(p23;q35) chromosomal translocation encodes part of the nucleolar phosphoprotein, nucleophosmin (NPM), joined to the entire cytoplasmic portion of the anaplastic lymphoma kinase (ALK) receptor tyrosine kinase. As a consequence, the ALK gene comes under the control of the NPM promoter, which induces a permanent and ubiquitous transcription of the NPM-ALK hybrid gene, resulting in the production of a 80kDa NPM-ALK chimeric protein. This translocation is found in anaplastic large cell lymphomas (ALCL). Reportedly, expression of ALK indicates a better prognosis. Approximately 5%-10% of non-small cell lung carcinomas also express ALK protein producing a cytoplasmic staining pattern. This MAb also reacts with blood vessels that serves as an internal positive control.

## Application Notes

Optimal dilution of the Anaplastic Lymphoma Kinase antibody should be determined by the researcher.

## Immunogen

Recombinant human Anaplastic Lymphoma Kinase protein fragment (amino acids 1360-1460) was used as the immunogen for the Anaplastic Lymphoma Kinase antibody.

## Storage

Aliquot the Anaplastic Lymphoma Kinase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

## References (1)