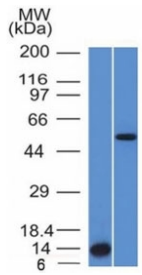
Anaplastic Lymphoma Kinase Antibody / ALK [clone ALK/1503] (V5625)

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

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ALK/1503
Purity	Protein A/G affinity
UniProt	Q9UM73
Localization	Cell membrane
Applications	Flow cytometry: 1-2ug/million cells Immunofluorescence: 1-3ug/ml Western blot: 2-4ug/ml
Limitations	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.

For additional ALK and oncogenic kinase research antibodies targeting fusion protein signaling, lung cancer biomarkers, and lymphoma-associated receptor tyrosine kinase pathways, explore the broader ALK Antibody page featuring recombinant rabbit monoclonal clone ALK1/6698R.

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)

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