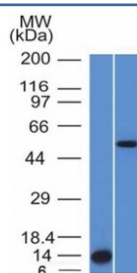


## Anaplastic Lymphoma Kinase Antibody / ALK [clone ALK/1503] (V5625)

| 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>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<br>Immunofluorescence : 1-3ug/ml<br>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)