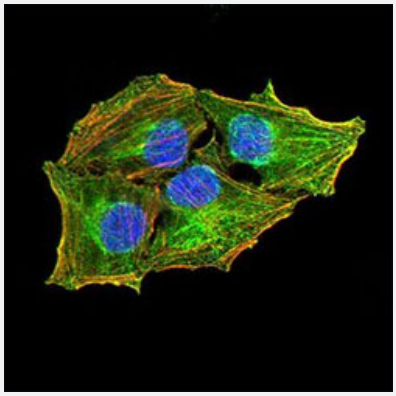
# ALK monoclonal antibody, clone 7A11A4

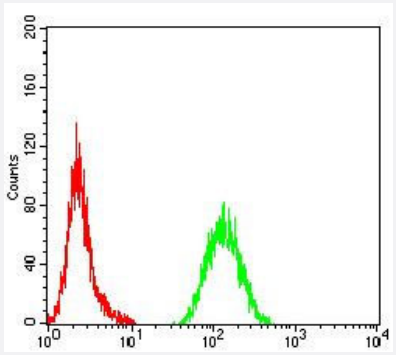
Catalog # MAB17851 Size 100 ug

## Applications



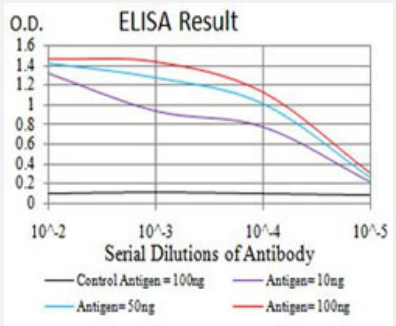
### Immunofluorescence

Immunofluorescent staining of HeLa cell line with antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.




### Flow Cytometry

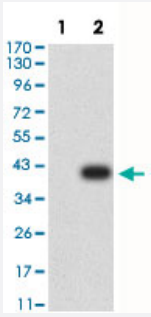
Flow cytometric analysis of HeLa cells using ALK mouse monoclonal antibody (green) and negative control (red).




### Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ALK monoclonal antibody.

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## Western Blot (Transfected lysate)

Western Blot (Transfected lysate) analysis of (1) HEK293, (2) ALK-hIgGFc transfected HEK293 cell lysate.

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against recombinant human ALK. |
| **Immunogen** | Recombinant protein corresponding to amino acids 1366-1468 of human ALK from *E. coli*. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 176 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Recommend Usage** | ELISA (1:10000)<br>Flow Cytometry (1:200-400)<br>Immunofluorescence (1:50-250)<br>Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.05% sodium azide). |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

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- Immunofluorescence

  Immunofluorescent staining of HeLa cell line with antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

- Flow Cytometry

  Flow cytometric analysis of HeLa cells using ALK mouse monoclonal antibody (green) and negative control (red).

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of ALK monoclonal antibody.

- Western Blot (Transfected lysate)

  Western Blot (Transfected lysate) analysis of (1) HEK293, (2) ALK-hIgGFc transfected HEK293 cell lysate.

## Gene Info — ALK

| | |
|---|---|
| **Entrez GeneID** | 238 |
| **Gene Name** | ALK |
| **Gene Alias** | CD246, Ki-1, TFG/ALK |
| **Gene Description** | anaplastic lymphoma receptor tyrosine kinase |
| **Omim ID** | 105590 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The 2;5 chromosomal translocation is frequently associated with anaplastic large cell lymphomas (ALCLs). The translocation creates a fusion gene consisting of the ALK (anaplastic lymphoma kin ase) gene and the nucleophosmin (NPM) gene: the 3' half of ALK, derived from chromosome 2, is fused to the 5' portion of NPM from chromosome 5. A recent study shows that the product of the N PM-ALK fusion gene is oncogenic. The deduced amino acid sequences reveal that ALK is a nov el receptor protein-tyrosine kinase having a putative transmembrane domain and an extracellular domain. These sequences are absent in the product of the transforming NPM-ALK gene. ALK sh ows the greatest sequence similarity to LTK (leukocyte tyrosine kinase). ALK plays an important r ole in the development of the brain and exerts its effects on specific neurons in the nervous syste m. [provided by RefSeq |
| **Other Designations** | ALK tyrosine kinase receptor\|CD246 antigen\|anaplastic lymphoma kinase (Ki-1)\|anaplastic lymph oma kinase Ki-1 |

## Disease

- Adenocarcinoma

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- Carcinoma
- Genetic Predisposition to Disease
- Kidney Failure
- Lung Neoplasms
- Multiple Sclerosis
- Schizophrenia
- Tobacco Use Disorder

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