

# Product Name: ALK (phospho Tyr1507) Rabbit Polyclonal Antibody Catalog #: APRab04221

For research use only.

## **Summary**

**Description** Rabbit polyclonal Antibody

**Host** Rabbit

**Application** WB,IHC,ICC/IF,ELISA **Reactivity** Human,Mouse,Monkey

ConjugationUnconjugatedModificationPhosphorylated

**Isotype** IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

# **Application**

**Dilution Ratio** WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000

Molecular Weight 150-240kDa

# **Antigen Information**

Gene Name ALK

Alternative Names ALK; ALK tyrosine kinase receptor; Anaplastic lymphoma kinase; CD antigen CD246

 Gene ID
 238.0

 SwissProt ID
 Q9UM73

The antiserum was produced against synthesized peptide derived from human ALK around Immunogen

the phosphorylation site of Tyr1507. AA range:1473-1522

## **Background**

This gene encodes a receptor tyrosine kinase, which belongs to the insulin receptor superfamily. This protein comprises an

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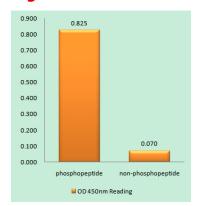


extracellular domain, an hydrophobic stretch corresponding to a single pass transmembrane region, and an intracellular kinase domain. It plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. This gene has been found to be rearranged, mutated, or amplified in a series of tumours including anaplastic large cell lymphomas, neuroblastoma, and non-small cell lung cancer. The chromosomal rearrangements are the most common genetic alterations in this gene, which result in creation of multiple fusion genes in tumourigenesis, including ALK (chromosome 2)/EML4 (chromosome 2), ALK/RANBP2 (chromosome 2), ALK/ATIC (chromosome 2), ALK/TFG (chromosome 3), ALK/NPM1 (chromosome 5), ALK/SQSTM1 (chromosomecatalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate., disease: A chromosomal aberration involving ALK is associated with anaplastic large-cell lymphoma (ALCL). Translocation t(2;17)(p23;q25) with ALO17., disease: A chromosomal aberration involving ALK is associated with inflammatory myofibroblastic tumors (IMTs). Translocation t(2;11)(p23;p15) with CARS; translocation t(2;4)(p23;q21) with SEC31A.,disease:A chromosomal aberration involving ALK is found in a form of non-Hodgkin lymphoma. Translocation t(2;5)(p23;q35) with NPM1. The resulting chimeric NPM1-ALK protein homodimerize and the kinase becomes constitutively activated. The constitutively active fusion proteins are responsible for 5-10% of non-Hodgkin lymphomas., function: Orphan receptor with a tyrosine-protein kinase activity. Appears to play an important role in the normal development and function of the nervous system. Phosphorylates almost exclusively at the first tyrosine of the Y-x-x-Y-Y motif.,PTM:N-qlycosylated.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily, similarity: Contains 1 LDL-receptor class A domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 MAM domains.,subunit:Homodimer. When bound to ligand, tissue specificity: Expressed in brain and CNS. Also expressed in the small intestine and testis, but not in normal lymphoid cells.,

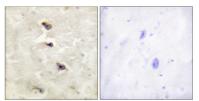
#### **Research Area**

Tags & Cell Markers

### **Image Data**



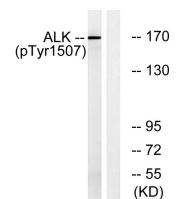
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ALK (Phospho-Tyr1507) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using ALK (Phospho-Tyr1507) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from COS7 cells treated with anisomycin 25ug/ml 30 ', using ALK (Phospho-Tyr1507) Antibody. The lane on the right is blocked with the phospho peptide.

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