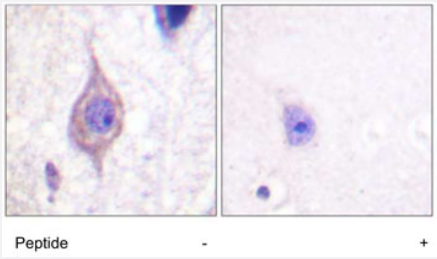
ALK polyclonal antibody

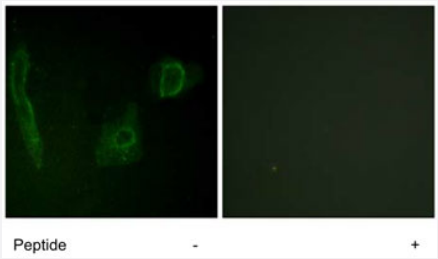
Catalog # PAB18081 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded human brain tissue using ALK polyclonal antibody (Cat # PAB18081).
Peptide "+" means "with peptide blocking".



Immunofluorescence

Immunofluorescence analysis of HeLa cells, using ALK polyclonal antibody (Cat # PAB18081).
Peptide "+" means "with peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ALK.
Immunogen	A synthetic peptide corresponding to amino acids 1570-1619 of human ALK.
Host	Rabbit
Theoretical MW (kDa)	176
Reactivity	Human
Specificity	This antibody detects endogenous levels of total ALK protein.
Form	Liquid

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Recommend Usage	ELISA (1:1000) Immunofluorescence (1:100~1:500) Immunohistochemistry (1:50~1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS ((without Mg2+ and Ca2+), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C. 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

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemistry analysis of paraffin-embedded human brain tissue using ALK polyclonal antibody (Cat # PAB18081). Peptide "+" means "with peptide blocking".

- Immunohistochemistry

- Immunofluorescence

  Immunofluorescence analysis of HeLa cells, using ALK polyclonal antibody (Cat # PAB18081).
  Peptide "+" means "with peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ALK

Entrez GeneID	238
Protein Accession#	Q9UM73
Gene Name	ALK
Gene Alias	CD246, Ki-1, TFG/ALK
Gene Description	anaplastic lymphoma receptor tyrosine kinase
Omim ID	105590
Gene Ontology	Hyperlink

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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 kinase) 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 NPM-ALK fusion gene is oncogenic. The deduced amino acid sequences reveal that ALK is a novel 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 shows the greatest sequence similarity to LTK (leukocyte tyrosine kinase). ALK plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. [provided by RefSeq
Other Designations	ALK tyrosine kinase receptor|CD246 antigen|anaplastic lymphoma kinase (Ki-1)|anaplastic lymphoma kinase Ki-1

Publication Reference

- The oncoprotein NPM-ALK of anaplastic large-cell lymphoma induces JUNB transcription via ERK1/2 and JunB translation via mTOR signaling.

  Staber PB, Vesely P, Haq N, Ott RG, Funato K, Bambach I, Fuchs C, Schauer S, Linkesch W, Hrzenjak A, Dirks WG, Sexl V, Bergler H, Kadin ME, Sternberg DW, Kenner L, Hoefler G.

  Blood 2007 Nov; 110(9):3374.

  Application: IHC-P, WB-Tr, Human, Anaplastic large cell lymphomas, Ba/F3, HEK 293 cells

- Nucleophosmin/anaplastic lymphoma kinase (NPM/ALK) oncoprotein induces the T regulatory cell phenotype by activating STAT3.

  Kasprzycka M, Marzec M, Liu X, Zhang Q, Wasik MA.

  PNAS 2006 Jun; 103(26):9964.

- Prognostic significance of CD56 expression for ALK-positive and ALK-negative anaplastic large-cell lymphoma of T/null cell phenotype.

  Suzuki R, Kagami Y, Takeuchi K, Kami M, Okamoto M, Ichinohasama R, Mori N, Kojima M, Yoshino T, Yamabe H, Shiota M, Mori S, Ogura M, Hamajima N, Seto M, Suchi T, Morishima Y, Nakamura S.

  Blood 2000 Nov; 96(9):2993.

  Application: IHC-P, WB-Ce, Human, Anaplastic large cell lymphoma

- Lymphomas expressing ALK fusion protein(s) other than NPM-ALK.

  Falini B, Pulford K, Pucciarini A, Carbone A, De Wolf-Peeters C, Cordell J, Fizzotti M, Santucci A, Pelicci PG, Pileri S, Campo E, Ott G, Delsol G, Mason DY.

  Blood 1999 Nov; 94(10):3509.

  Application: ICC, IHC-P, Human, Human lymphoma

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Disease

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

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