

产品名称: ALK Rabbit Polyclonal Antibody
产品货号: APRab06779



产品概述 (Summary)

产品名称 (Production Name)	ALK Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ALK
别名 (Alternative Names)	ALK; ALK tyrosine kinase receptor; Anaplastic lymphoma kinase; CD antigen CD246
基因 ID (Gene ID)	238.0
蛋白 ID (SwissProt ID)	Q9UM73.The antiserum was produced against synthesized peptide derived from human ALK. AA range:1570-1619

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	150-240kDa

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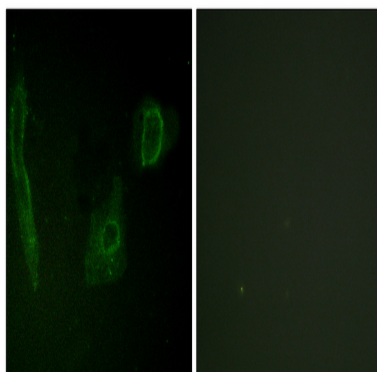
研究背景 (Background)

This gene encodes a receptor tyrosine kinase, which belongs to the insulin receptor superfamily. This protein comprises an 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 (chromosome). catalytic 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-x-Y motif. ,PTM: N-glycosylated. ,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. ,

研究领域 (Research Area)

Tags & Cell Markers

图片 (Image Data)

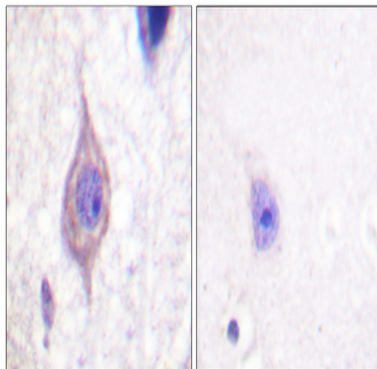


Immunofluorescence analysis of HeLa cells, using ALK Antibody. The picture on the right is blocked with the synthesized

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peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ALK Antibody. The picture on the right is blocked with the synthesized peptide.

注意事项 (Note)

For research use only .