ALK (Phospho Tyr1507) Rabbit pAb

CatalogNo: YP0685 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Monkey

Applications
- WB,IHC,IF,ELISA

MW
- 150-240kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:5000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human ALK around the phosphorylation site of Tyr1507. AA range:1473-1522

Specificity	Phospho-ALK (Y1507) Polyclonal Antibody detects endogenous levels of ALK protein only when phosphorylated at Y1507.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PTyGS

Target Information

Gene name ALK

Protein Name ALK tyrosine kinase receptor

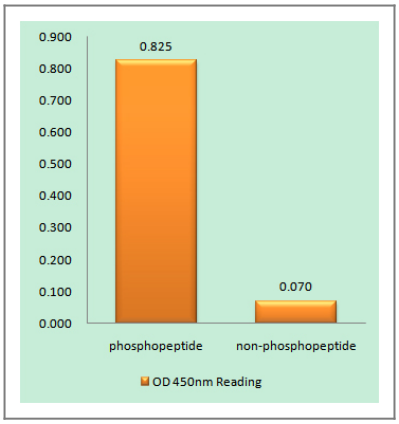
Organism	Gene ID	UniProt ID
Human	238;	Q9UM73;
Mouse	11682;	P97793;

Cellular Localization Cell membrane ; Single-pass type I membrane protein . Membrane attachment is essential for promotion of neuron-like differentiation and cell proliferation arrest through specific activation of the MAP kinase pathway. .

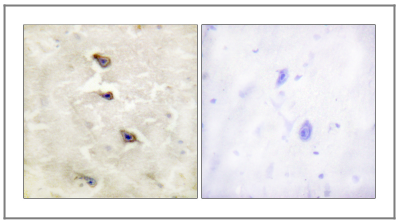
Tissue specificity Expressed in brain and CNS. Also expressed in the small intestine and testis , but not in normal lymphoid cells.

Function 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-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. ,

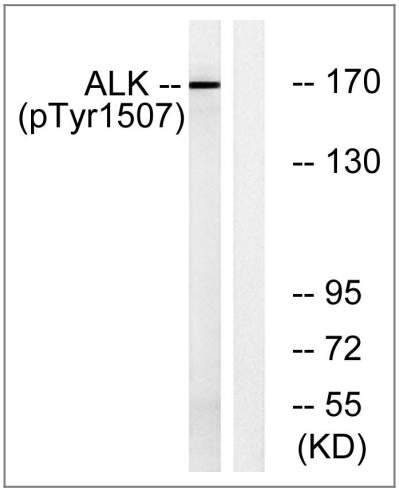
Validation Data



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.



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.

Contact information

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Please scan the QR code to access additional product information: **ALK (Phospho Tyr1507) Rabbit pAb**

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