

ALK (Phospho Tyr1278/1282/1283) Rabbit pAb

CatalogNo: YP1258

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

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 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human ALK (Tyr1278 and 1282 and 1283)

Specificity This antibody detects ALK only when phosphorylated at Tyr1278/1282/1283, which is equivalent to Tyr338/342/343 of NPM-ALK. This antibody also reacts with leukocyte tyrosine kinase (LTK) phosphorylated at Tyr672

Target Information

Gene name ALK

Protein Name ALK (Tyr1278/1282/1283)

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

Contact information

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