Active Recombinant Human NPM1/ALK F1174L Protein, GST-tagged

Cat. No. NPM1/ALK-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NPM1(1-117)/ALK(F1174L)(1058-end) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-117;1058-end a.a.
Description	NPM1-ALK which belongs to the insulin receptor superfamily which comprises an extracellular domain, a hydrophobic stretch corresponding to a single pass transmembrane region, and an intracellular kinase domain. CD246 plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. ALK-positive neoplasms represent a distinct entity because the morphology of the tumors is often neither anaplastic nor large cell and the tumors should be referred to as ALK lymphomas. CD246 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. STAT5A is epigenetically silenced by the tyrosine kinase NPM1-ALK and acts as a tumor suppressor by reciprocally inhibiting NPM1-ALK expression.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.

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Bio-activity	8 nmol/min/mg
Molecular Mass	~108 kDa
Purity	>70%
Applications	Kinase Assay
Stability	1yr at –70 centigrade from date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.05 g/ml

GENE INFORMATION

Gene Name	NPM1 nucleophosmin (nucleolar phosphoprotein B23, numatrin) [Homo sapiens]
Official Symbol	NPM1
Synonyms	NPM1; nucleophosmin (nucleolar phosphoprotein B23, numatrin); nucleophosmin; B23; NPM; nucleolar phosphoprotein B23; nucleophosmin/nucleoplasmin family; member 1; numatrin; nucleolar protein NO38; nucleophosmin/nucleoplasmin family, member 1; MGC104254;
Gene ID	4869
mRNA Refseq	NM_001037738

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Protein Refseq	NP_001032827
MIM	164040
UniProt ID	P06748
Chromosome Location	5q35.1
Pathway	Aurora B signaling, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Deposition of New CENPA-containing Nucleosomes at the Centromere, organism-specific biosystem; Disease, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem;
Function	NF-kappaB binding; NF-kappaB binding; RNA binding; Tat protein binding; histone binding; nucleic acid binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein kinase binding; ribosomal large subunit binding; ribosomal small subunit binding; transcription coactivator activity; unfolded protein binding; unfolded protein binding;

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