

Active Recombinant Human EML4, GST-tagged

Cat. No. EML4-92H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human fusion protein EML4 (1-496)-ALK (1058-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-496;1058-end a.a.
Description	ALK or CD246 is a receptor tyrosine kinase, 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. EML4-ALK mutations in lung cancer confer resistance to ALK inhibitors.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Bio-activity	4.8 nmol/min/mg

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Molecular Mass	~150 kDa
Purity	>70% by densitometry
Applications	Kinase Assay
Storage	Store product at –70oC. 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 ug/ul
GENE INFORMATION	
Gene Name	EML4 echinoderm microtubule associated protein like 4 [Homo sapiens]
Official Symbol	EML4
Synonyms	EML4; echinoderm microtubule associated protein like 4; C2orf2; echinoderm microtubule-associated protein-like 4; ELP120; ROPP120; ropp 120; restrictedly overexpressed proliferation-associated protein; EMAP-4; EMAPL4; FLJ10942; FLJ32318; DKFZp686P18118;
Gene ID	27436
mRNA Refseq	NM_001145076
Protein Refseq	NP_001138548
MIM	607442

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UniProt ID	Q9HC35
Chromosome Location	2p21
Function	molecular_function;

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