

## Active Recombinant Human EML4, GST-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant human fusion protein EML4 (1-496)-ALK (1058-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 1-496;1058-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | 4.8 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | ~150 kDa                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | >70% by densitometry                                                                                                                                                                                                                                          |
| <b>Applications</b>     | Kinase Assay                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | 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.                       |
| <b>Concentration</b>    | 0.05 ug/ul                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>        | <a href="#">EML4 echinoderm microtubule associated protein like 4 [ Homo sapiens ]</a>                                                                                                                                                                        |
| <b>Official Symbol</b>  | EML4                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | 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; |
| <b>Gene ID</b>          | <a href="#">27436</a>                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>      | <a href="#">NM_001145076</a>                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | <a href="#">NP_001138548</a>                                                                                                                                                                                                                                  |
| <b>MIM</b>              | <a href="#">607442</a>                                                                                                                                                                                                                                        |

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|------------------------|---------------------|
| UniProt ID             | Q9HC35              |
| Chromosome<br>Location | 2p21                |
| Function               | molecular_function; |

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