

## NPM1-ALK recombinant protein

NPM1-ALK Mutant (F1174L), Active

|                              |                                                   |                                     |
|------------------------------|---------------------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA72947</b> | HOST<br><b>Sf9 insect cells using baculovirus</b> | APPLICATIONS<br><b>Kinase Assay</b> |
|------------------------------|---------------------------------------------------|-------------------------------------|

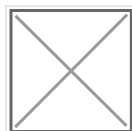
### PRODUCT SYNONYMS

NPM1-ALK; NPM1-ALK Mutant (F1174L); Active; NPM1-ALK recombinant protein

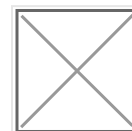
### PRODUCT SPECIFICATIONS

|                                                          |                                                                                                                                                                                                                                                      |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                     | Sf9 insect cells using baculovirus                                                                                                                                                                                                                   |
| Form/Format                                              | 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.                                                                                                                                                    |
| Sequence Positions                                       | 1-117 (NPM1) 1058-end (F1174L) (ALK)                                                                                                                                                                                                                 |
| Sequence Length                                          | 2043                                                                                                                                                                                                                                                 |
| Applicable Applications for NPM1-ALK recombinant protein | Kinase Assay                                                                                                                                                                                                                                         |
| Species                                                  | Human                                                                                                                                                                                                                                                |
| Tag                                                      | GST tag                                                                                                                                                                                                                                              |
| Dry Ice Note                                             | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                                   |
| Preparation and Storage                                  | Store product at -70 degree C.<br>For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature.<br>For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



Application Data



Application Data

### ADDITIONAL INFORMATION

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| Related Product Information for NPM1-ALK recombinant protein | <p>Description: Recombinant human fusion protein NPM1 (1-117)-ALK (F1174L) (1058-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.</p> <p>Scientific Background: 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 (1). 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 (2).</p> |
| Product Categories/Family for NPM1-ALK recombinant protein   | Enzymes; Active Kinase Mutants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|            |                                                                                                                                                                                                                                                                                                      |
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| References | 1. Benharroch, D.et.al: ALK-positive lymphoma: a single disease with a broad spectrum of morphology. Blood 91: 2076-2084, 1998. 2. Zhang, Q. et.al: STAT5A is epigenetically silenced by the tyrosine kinase NPM1-ALK and acts as a tumor suppressor by reciprocally inhibiting NPM1-ALK expression. |
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NCBI AND UNIPROT INFORMATION

|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| NCBI GI #               | 609341                                                                                     |
| UniProt Accession #     | U04946                                                                                     |
| Molecular Weight        | ~108 kDa                                                                                   |
| NCBI Official Full Name | Human nucleophosmin-anaplastic lymphoma kinase fusion protein (NPM/ALK) mRNA, complete cds |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/npm1-alk-recombinant-protein-sf9-insect-cells-using-baculovirus-kinase-assay/72947>