

## EPHB4 recombinant protein

EPHB4, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73524</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

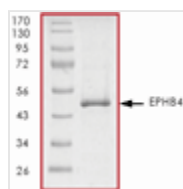
### PRODUCT SYNONYMS

EPHB4; Active; HTK; MYK1; TYRO11; Mdk2; EPHB4 recombinant protein

### PRODUCT SPECIFICATIONS

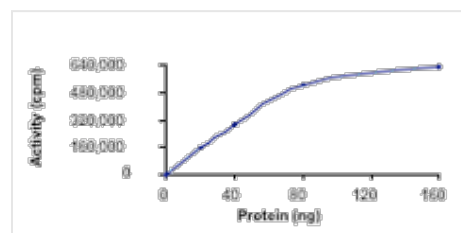
|                                                       |                                                                                                                                                                                                                                                |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                           | Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.                                                                                                                 |
| Applicable Applications for EPHB4 recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                   | HIS                                                                                                                                                                                                                                            |
| Species                                               | Human                                                                                                                                                                                                                                          |
| 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. 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. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for EPHB4 recombinant protein | <p>Recombinant human EPHB4 (561-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. The gene accession number is NM_004444.</p> <p>EPHB4 is a member of the Eph family of receptor tyrosine kinases which play a role in regulating cell adhesion and cell movement during embryonic development (1). Furthermore, because tissue disorganization and abnormal cell adhesion, movement, and survival characterize the more advanced stages of cancer, the inappropriate functioning of Eph receptor could play a causal role in malignancy (2). EPHB4 is uniquely expressed in the vascular endothelial and endocardial cells and animal knockout studies with EPHB4 reveal a phenotype that is similar to Ephrin B2 gene knockdown. Furthermore, EPHB4 has been shown to be the major essential interaction partner of Ephrin B2 in angiogenesis.</p> |
| Product Categories/Family for EPHB4 recombinant protein   | <a href="#">Protein Kinases</a> ; <a href="#">Angiogenesis</a> ; <a href="#">Cancer</a> ; <a href="#">Cardiovascular Disease</a> ; <a href="#">Neurobiology</a> ; <a href="#">Receptor Tyrosine Kinases</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## References

1. Andres, A.C. et al: Expression of two novel eph-related receptor protein tyrosine kinases in mammary gland development and carcinogenesis. *Oncogene*, 1994;9(8):2431.
2. Kumar, S.R. et al: The receptor tyrosine kinase EphB4 is overexpressed in ovarian cancer, provides survival signals and predicts poor outcome. *Br. J. Cancer*. 2007, 96(7):1083-91.

## NCBI AND UNIPROT INFORMATION

|                           |                           |
|---------------------------|---------------------------|
| NCBI GenBank Nucleotide # | <a href="#">NM_004444</a> |
|---------------------------|---------------------------|

|                  |        |
|------------------|--------|
| Molecular Weight | ~50kDa |
|------------------|--------|

**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://www.aaabiotech.com/ephb4-recombinant-protein-sf9-wb-western-blot-kinase-assay/73524>