

# Recombinant Full Length Human EPHB4 Protein, GST-tagged

**Cat. No.** EPHB4-4382HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Human EPHB4 full-length ORF ( AAH52804.1, 1 a.a. - 987 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 987 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq, Jul 2008] |
| <b>Molecular Mass</b>   | 134.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MELRVLLCWASLAAALEETLLNTKLETADLKWVTFPQVDGQWEELSGLDDEEQHSVR<br>TYEVC DVQ RAPGQAHWLRTGWVPRRGAVH VYATLRFTMLECLSLPRAGRSCKETF<br>TVFYYESDADTATALTPAWMENPYIKVDTVAAEHLTRKRP GAEATGKVNVRTLR LGP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

 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

LSKAGFYLAHQDQACMALLSLHLFYKKCAQLTVNLTRFPETVPRELVPVAGSCVV  
 DAVPAPGPPSPSLYCREGGQWAEQPVTCSCAPGFEEAEGNTKCRACAQGTFFKPLS  
 GEGSCQPCPANSHSNTIGSAVCQCRVGYFRARTDPRGAPCTTPPSAPRSVVSRLN  
 GSSLHLEWSAPLES GGREDLTALRCRECRPGGSCAPCGGDLTFDPGPRDLVEPW  
 VVVRGLRPDFTYTFEVTALNGVSSLATGPVPFEPVNVTTDREVPPAVSDIRVTRSSP  
 SSSLAWAVPRAPSGAVLDYEVKYHEKGAEGPSSVRFLKTSENRAELRGLKRGASY  
 LVQVRARSEAGYGPFGQEHHSQTQLDESEGWREQLALIAGTAVVGVVLVLVVIVVA  
 VLCLRKQSNGREAEYSKDHGQYLIGHGTKVYIDPFTYEDPNEAVREFAKEIDVSYVKI  
 EEVIGAGEFGEVCRGRLKAPGKKESCVAIKTLKGGYTERQRREFLSEASIMGQFEHP  
 NIIRLEGVVTNSMPVMILTEFMENGALDSFLRLNDGQFTVIQLVGMLRGIASGMRYLA  
 EMSYVHRDLAARNILVNSNLVCKVSDFGLSRFLEENSSDPTYTSSLGGKIPRWTP  
 EAIAFRKFTSASDAWSYGIVMWEVMSFGERPYWDMSNQDVINAIEQDYRLPPPPDC  
 PTLHQLMLDCWQKDRNARPRFPQVVSALDKMIRNPASLKIVARENGGASHPLLDQ  
 RQPHYSAFGSVGEWLRAIKMGRYEESEFAAGFGSFELVSQISAEDLLRIGVTLAGHQ  
 KKILASVQHMKSQAKPGTPGGTGGPAPQY

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

EPHB4 EPH receptor B4 [ Homo sapiens ]

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | EPHB4                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | EPHB4; EPH receptor B4; EphB4 , HTK; ephrin type-B receptor 4; Tyro11; ephrin receptor EphB4; soluble EPHB4 variant 1; soluble EPHB4 variant 2; soluble EPHB4 variant 3; hepatoma transmembrane kinase; tyrosine-protein kinase TYRO11; tyrosine-protein kinase receptor HTK; HTK; MYK1; TYRO11; |
| <b>Gene ID</b>         | 2050                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_004444                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_004435                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 600011                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>      | P54760                                                                                                                                                                                                                                                                                           |

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