

## EPHB3 recombinant protein

Recombinant EPHB3 (585-998) protein

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|------------------------------|----------------------------|
| CATALOG #<br><b>AAA60365</b> | HOST<br><b>Baculovirus</b> |
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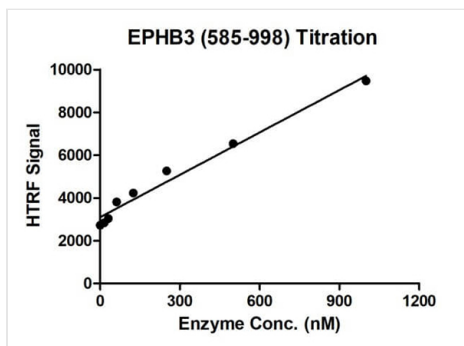
### PRODUCT SYNONYMS

EPHB3; Recombinant EPHB3 (585-998) protein; Ephrin type-B receptor 3; EPH Receptor B3; HEK2; TYRO6; ETK2; Tyrosine-Protein Kinase TYRO6; EK2; Tyro6; EphB3; Hek2; EPHB3 recombinant protein

### PRODUCT SPECIFICATIONS

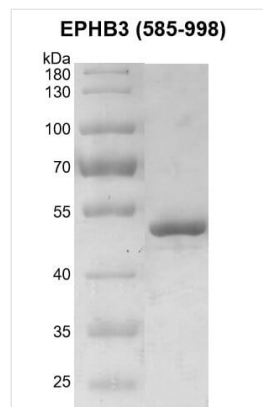
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| Host                    | Baculovirus                                                                                                                                                                                                                                                             |
| Form/Format             | Recombinant EPHB3 (585-998) protein is supplied in 25 mM HEPESNaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5 mM TCEP.                                                                                                                               |
| Protein Species         | Human                                                                                                                                                                                                                                                                   |
| Protein Details         | Recombinant EPHB3 (585-998) protein that includes amino acids 585-998 of human EPHB3 protein (accession number NP_004434.2) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 48.19kDa. |
| Preparation and Storage | Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.                                                                            |

### IMAGES



#### Application Data

HTRF assay for EPHB3 (585-998) activity 1uM TK substrate was incubated with different concentrations of EPHB3 (585-998) protein in 10ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl<sub>2</sub>, 1 mM DTT, 1 mM MnCl<sub>2</sub>, 5 nM SEB and 100uM ATP for 1 hour. Then 10ul detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



#### SDS-PAGE

Recombinant EPHB3 (585-998) protein 10% SDS-PAGE Coomassie staining MW: 48.19kDa Purity: >=95%

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Related Product Information for EPHB3 recombinant protein | EPHB3(Ephrin type-B receptor 3) is a receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Generally, has an overlapping and redundant function with EPHB2. Like EPHB2, functions in axon guidance during development regulating for instance the neurons forming the corpus callosum and the anterior commissure, 2 major interhemispheric connections between the temporal lobes of the cerebral cortex. In addition to its role in axon guidance also plays an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and the formation of excitatory synapses. Controls other aspects of development through regulation of cell migration and positioning. This includes angiogenesis, palate development and thymic epithelium development for instance. Forward and reverse signaling through the EFNB2/EPHB3 complex also regulate migration and adhesion of cells that tubularize the urethra and septate the cloaca. Finally, plays an important role in intestinal epithelium differentiation segregating progenitor from differentiated cells in the crypt. |
| Product Categories/Family for EPHB3 recombinant protein   | Kinase; Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

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|------------------|----------|
| Molecular Weight | 48.19kDa |
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**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/ephb3-recombinant-protein-baculovirus/60365>