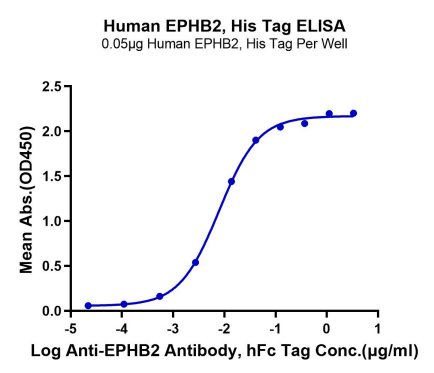
Bioactive HuPro®

# EPHB2 (Human) Recombinant Protein

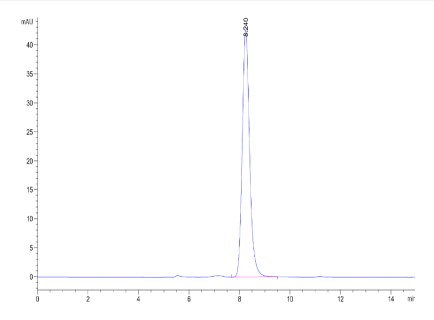
Catalog # P9886 Size 100 ug

## Applications



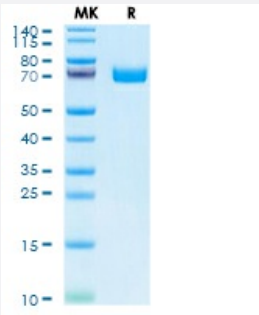

### Enzyme-linked Immunoabsorbent Assay

Immobilized Human EPHB2, His Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-EPHB2 Antibody, hFc Tag with the EC50 of 8.0 ng/mL determined by ELISA.



### SEC-HPLC

The purity of Human EPHB2 is greater than 95% as determined by SEC-HPLC.




### Tris-Bis PAGE

Human EPHB2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

## Specification

| | |
|---|---|
| **Product Description** | Human EPHB2 (P29323-1, Val19-Leu543) partial recombinant protein with His tag at C-Terminus ex pressed in HEK293 cells. |
| **Sequence** | Val19-Leu543 |
| **Host** | Human |
| **Theoretical MW (kDa)** | 59.2 |
| **Form** | Lyophilized |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purity** | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| **Endotoxin Level** | < 1 EU per 1 ug of protein (determined by LAL method) |
| **Activity** | The $EC_{50}$ was 8.0 ng/mL, messured by ELISA at 0.5 ug/mL. |
| **Quality Control Testing** | SEC-HPLC and Tris-Bis PAGE<br>SEC-HPLC<br>The purity of Human EPHB2 is greater than 95% as determined by SEC-HPLC.<br>Tris-Bis PAGE<br>Human EPHB2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%. |
| **Recommend Usage** | Biological Activity<br>ELISA<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from sterile distilled Water is > 100 ug/mL |
| **Storage Instruction** | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Result of bioactivity analysis |

## Applications

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- Functional Study

- SDS-PAGE

## Gene Info — EPHB2

| | |
|---|---|
| **Entrez GeneID** | 2048 |
| **Protein Accession#** | P29323-1 |
| **Gene Name** | EPHB2 |
| **Gene Alias** | CAPB, DRT, EPHT3, ERK, Hek5, MGC87492, PCBC, Tyro5 |
| **Gene Description** | EPH receptor B2 |
| **Omim ID** | 600997 603688 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 is a receptor for ephrin-B family members. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000002914\|OTTHUMP00000002916\|developmentally-regulated eph-related tyrosine kinase\|elk-related tyrosine kinase\|eph tyrosine kinase 3\|ephrin receptor EphB2\|prostate cancer-brain cancer susceptibility |

## Pathway

- Axon guidance

## Disease

- Adenomatous Polyposis Coli
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colorectal Neoplasms

- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Intestinal Polyposis
- Parkinson disease
- Precancerous Conditions
- Prostate cancer
- Prostatic Neoplasms