

EphB4 Protein, Mouse (HEK293, Fc)

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| Cat. No.: | HY-P73004 |
| Synonyms: | Ephrin type-B receptor 4; EPHB4; HTK; MYK1; TYRO11 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | P54761-1 (M1-A539) |
| Gene ID: | 13846 |
| Molecular Weight: | Approximately 110 kDa |

PROPERTIES

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| AA Sequence | <p> M E L R A L L C W A S L A T A L E E T L L N T K L E T A D L K W V T Y P Q A E G Q W E E L S G L D E E Q H S V R T Y E V C D M K R P G G Q A H W L R T G W V P R R G A V H V Y A T I R F T M M E C L S L P R A S R S C K E T F T V F Y Y E S E A D T A T A H T P A W M E N P Y I K V D T V A A E H L T R K R P G A E A T G K V N I K T L R L G P L S K A G F Y L A F Q D Q G A C M A L L S L H L F Y K K C S W L I T N L T Y F P E T V P R E L V V P V A G S C V A N A V P T A N P S P S L Y C R E D G Q W A E Q Q V T G C S C A P G Y E A A E S N K V C R A C G Q G T F K P Q I G D E S C L P C P A N S H S N N I G S P V C L C R I G Y Y R A R S D P R S S P C T T P P S A P R S V V H H L N G S T L R L E W S A P L E S G G R E D L T Y A V R C R E C R P G G S C L P C G G D M T F D P G P R D L V E P W V A I R G L R P D V T Y T F E V A A L N G V S T L A T G P P P F E P V N V T T D R E V P P A V S D I R V T R S S P S S L I L S W A I P R A P S G A V L D Y E V K Y H E K G A E G P S S V R F L K T S E N R A E L R G L K R G A S Y L V Q V R A R S E A G Y G P F G Q E H H S Q T Q L D E S E S W R E Q L A </p> |
| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

Ephb4 Protein, a receptor tyrosine kinase, exhibits promiscuous binding to transmembrane ephrin-B ligands on neighboring cells, initiating contact-dependent bidirectional signaling. This leads to both forward signaling, downstream of the receptor, and reverse signaling, downstream of the ephrin ligand. Crucially, Ephb4 Protein, in conjunction with its cognate ligand EFNB2, regulates cell adhesion and migration, playing a pivotal role in heart morphogenesis, angiogenesis, blood vessel remodeling, and permeability. Notably, EPHB4-mediated forward signaling governs cellular repulsion and segregation from EFNB2-expressing cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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