

## EphB6 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P75754
<b>Synonyms:</b>	Ephrin type-B receptor 6; HEP; Tyrosine-protein kinase-defective receptor EPH-6; EPHB9
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	O08644 (L33-S587)
<b>Gene ID:</b>	13848
<b>Molecular Weight:</b>	Approximately 66 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L E E V L L D T T G   E T S E I G W L T Y   P P G G W D E V S V   L D D Q R R L T R T F E A C H V A G L P   P G S G Q D N W L Q   T H F V E R R G A Q   R A H I R L H F S V R A C S S L G V S G   G T C R E T F T L Y   Y R Q A D E P D G P   D S I A A W H L K R W T K V D T I A A D   E S F P A S S S S S   S W A V G P H R T G   Q R V G L Q L N V K E R S F G P L T Q R   G F Y V A F Q D T G   A C L A L V A V K L   F S Y T C P S V L R A F A S F P E T Q A   S G A G G A S L V A   A V G T C V A H A E   P E E D G V G G Q A G G S P P R L H C N   G E G R W M V A V G   G C R C Q P G H Q P   A R G D K L C Q A C P E G S Y K A L A G   N V P C S P C P A R   S H S P D P A A P V   C P C L Q G F Y R A S S D P P E A P C T   G P P S A P R E L W   F E V Q G S A L M L   H W R L P Q E L G G R G D L L F N V V C   K E C G G H G E P S   S G G M C R R C R D   E V H F D P R Q R G L T E S R V L V G G   L R A H V P Y I L E   V Q A V N G V S E L   S P D P P Q A A A I N V S T S H E V P S   A V P V M H Q V S R   A A N S I T V S W P   Q P E Q T N G N I L D Y Q L R Y Y D Q A   E D E S H S F T M T   S E T N T A T V T R   L S P G H I Y G F Q V R A R T A A G H G   P Y G G K V Y F Q T   L P Q G E L S S Q L   P E K L S           </pre>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Mouse EphB6 at 10 µg/mL (100 µL/well) can bind Mouse EFNB1. The ED <sub>50</sub> for this effect is 0.3034 µg/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

EphB6, a kinase-defective receptor, serves as a binding partner for members of the ephrin-B family, specifically interacting with ephrin-B1 and ephrin-B2. Its engagement with ephrin-B2 leads to a nuanced modulation of cell adhesion and migration, eliciting both positive and negative effects. EphB6 plays a role in inhibiting JNK activation, T-cell receptor-induced IL-2 secretion, and CD25 expression upon stimulation with ephrin-B2. Furthermore, EphB6 engages in interactions with CBL and EPHB1, and notably associates with FYN in a ligand-independent manner, emphasizing its intricate involvement in cellular signaling pathways.

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

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