EphB2 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P75236
Synonyms:	EPHB2; Ephrin type-B receptor 2; EK5; DRT; EPHT3; ERK; HEK5; TYRO5
Species:	Mouse
Source:	HEK293
Accession:	NP_034272.1 (V19-K540)
Gene ID:	13844
Molecular Weight:	Approximately 96.6 kDa

PROPERTIES

AA Sequence	V E E T L M D S T T A T A E L G W M V H P P S G W E E V S G Y D E N M N T I R T Y Q V C N V F E S S Q N N W L R T K F I R R R G A H R I H V E M K F S V R D C S S I P S V P G S C K E T F N L Y Y Y E A D F D L A T K T F P N W M E N P W V K V D T I A A D E S F S Q V D L G G R V M K I N T E V R S F G P V S R N G F Y L A F Q D Y G G C M S L I A V R V F Y R K C P R I I Q N G A I F Q E T L S G A E S T S L V A A R G S C I A N A E E V D V P I K L Y C N G D G E W L V P I G R C M C K A G F E A V E N G T V C R G C P S G T F K A N Q G D E A C T H C P I N S R T T S E G A T N C V C R N G Y Y R A D L D P L D M P C T T I P S A P Q A V I S S V N E T S L M L E W T P P R D S G G R E D L V Y N I I C K S C G S G R G A C T R C G D N V Q Y A P R Q L G L T E P R I Y I S D L L A H T Q Y T F E I Q A V N G V T D Q S P F S P Q F A S V N I T T N Q A A P S A V S I M H Q V S R T V D S I T L S W S Q P D Q P N G V I L D Y E L Q Y Y E K E L S E Y N A T A I K S P T N T V T V Q G L K A G A I Y V F Q V R A R T V A G Y G R Y S G K M Y F Q T M T E A E Y Q T S I K E K
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse EphB2 at 10μg/mL (100 μL/well) can bind Biotinylated Mouse Ephrin-B2 protein. The ED50 for this effect is 4.958 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	EphB2, a member of the Eph receptor family, encodes a transmembrane glycoprotein with a ligand-binding domain, transmembrane region, and intracellular kinase domain. This receptor exhibits a preference for binding membrane-bound ephrin-B ligands, contributing to its involvement in nervous system and vascular development. Additionally, EphB2 serves as a marker for intestinal stem cells. Homozygous knockout mice for this gene demonstrate impaired axon guidance and vestibular function. The broad expression of EphB2 across various tissues, including the developing brain and central nervous system, underscores its crucial role in mediating diverse cellular processes during development.

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