

EphB6 Protein, Cynomolgus (HEK293, Fc)

Cat. No.:	HY-P77361
Synonyms:	Ephrin type-B receptor 6; HEP; Tyrosine-protein kinase-defective receptor EPH-6; EPHB6
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5X5C5 (L32-S590)
Gene ID:	102124431
Molecular Weight:	Approximately 90-110 kDa

PROPERTIES

AA Sequence

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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 A P   P G T 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 E E P D S P   E S V S S W H L K R
W T K V D T I A A D   E S F P S S S S S S   S A A W A V G P H G   A G Q R A 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   R L F S Y T C P A V
L R S 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 K W M V A   V G G C L C Q P G H   Q P A R G D K A C Q
A C P R G L Y K A S   A G N V P C S P C P   A R S H A P N P A A   P V C P C L E G F Y
R A S S D P P E A P   C T G P P S A P Q E   L W F E V Q G S A L   M L H W R L P R E L
G G R G D L L F N V   V C K E C E G R Q E   P A S G G G G T 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 V H   Q V S R A S N S I T   V S W P Q P D 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 L T S E T N T A   T V T Q 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 R L S

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Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Human EFNB2 at 10 µg/mL (100 µL/well) can bind Cynomolgus EphB6. The ED₅₀ for this effect is 43.04 ng/mL.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

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 ddH₂O. 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

EphB6 is a member of the Eph receptor tyrosine kinases family and is mainly expressed in thymocytes and T cell subsets, suggesting that EphB6 may be involved in the regulation of T lymphocyte differentiation and function. EphB6 is a kinase-deficient receptor that specifically interacts with ephrin-B family members as a binding partner for ephrin-B1 and ephrin-B2. This receptor, which regulates cell adhesion and migration, showed subtle effects, both positive and negative, in response to ephrin-B2 stimulation. EphB6, when stimulated by ephrin-B2, inhibited JNK activation, and decreased T-cell receptor-induced IL-2 secretion and CD25 expression. EphB6 promotes colorectal epithelial cell transformation and may serve as a novel biomarker and therapeutic target for colorectal cancer^{[1][2][3]}.

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

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