

EphA6 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75745
Synonyms:	Ephrin type-A receptor 6; EPH homology kinase 2; EHK-2; EphA6
Species:	Mouse
Source:	HEK293
Accession:	Q62413 (W23-Q546)
Gene ID:	13840
Molecular Weight:	Approximately 65-70 kDa

PROPERTIES

AA Sequence	<p> WTGDCSHVSN QVVLLDTTTTV MGE LGWKTYP LNGWDAITEM DEHNRPIHTY QVCNVMPEPNQ NNWLRTNWIS RDAAQKIYVE MKFTLRDCNS IPWVLGTCKE TFNLYYIESD ESHGTFKFKPS QYIKIDTIAA DESFTQMDLG DRILKLNTEI REVGPIERKG FYLAFQDIGA CIALVSVRVF YKKCPFTVRN LAMFPDTIPR VDSSSLVEVR GSCVKSAEER DTPKLYCGAD GDWLVLPLGRC ICSTGYEEIE GSCHACRPGF YKAFAGNTKC SKCPPHSSTY VEATSVCHCE KGYFRAEKDP PSMACTRPPS APRNVAFNIN ETALILEWSP PSDTGGRKDL TYSVICKKCG LDTTQCEDCG GGLRFIPRHT GLINNSVVVL DVFVSHVNYTF EIEAMNGVSE LSISP KPFTA ITVTTDHDAP SLIGMMRKDW ASQNSLALSW QAPAFSNGAI LDYEIKYYEK EHEQLTYSST RSKAPSVIVT GLKPATTYIF HIRVRTATGY SGYSQKFEFE TGDETSDMAA EQGQ </p>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized recombinant mouse EphA6 at 2 µg/mL(100 µL/well) can bind biotinylated recombinant mouse EphrinA3. The ED ₅₀ for this effect is 42.95 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 ddH ₂ O. 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

The EphA6 protein, a receptor tyrosine kinase, exhibits promiscuous binding to GPI-anchored ephrin-A family ligands on adjacent cells, initiating contact-dependent bidirectional signaling into neighboring cells. The downstream pathway originating from the receptor is termed forward signaling, while the pathway downstream of the ephrin ligand is referred to as reverse signaling, as indicated by similarity to other Eph receptors. This interaction highlights EphA6's role in mediating intricate signaling exchanges between cells, contributing to diverse cellular processes through bidirectional communication.

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

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