

EphA2 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P72992
Synonyms:	Ephrin type-A receptor 2; Epithelial cell kinase; EPHA2; ECK
Species:	Human
Source:	HEK293
Accession:	NP_004422.2 (A24-N534)
Gene ID:	1969
Molecular Weight:	Approximately 59.4 kDa

PROPERTIES

AA Sequence	<pre> L K T Y V D P H T Y E D P N Q A V L K F T T E I H P S C V T R Q K V I G A G E F G E V Y K G M L K T S S G K K E V P V A I K T L K A G Y T E K Q R V D F L G E A G I M G Q F S H H N I I R L E G V I S K Y K P M M I I T E Y M E N G A L D K F L R E K D G E F S V L Q L V G M L R G I A A G M K Y L A N M N Y V H R D L A A R N I L V N S N L V C K V S D F G L S R V L E D D P E A T Y T T S G G K I P I R W T A P E A I S Y R K F T S A S D V W S F G I V M W E V M T Y G E R P Y W E L S N H E V M K A I N D G F R L P T P M D C P S A I Y Q L M M Q C W Q Q E R A R R P K F A D I V S I L D K L I R A P D S L K T L A D F D P R V S I R L P S T S G S E G V P F R T V S E W L E S I K M Q Q Y T E H F M A A G Y T A I E K V V Q M T N D D I K R I G V R L P G H Q K R I A Y S L L G L K D Q V N T V G I P I </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized EFNA1-hFc at 10 µg/mL (100 µL/well) can bind Biotinylated EphA2 Protein, Human (HEK293, His-Avi) and the EC ₅₀ is 20-40 ng/mL.
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

EphA2 Protein, a member of the ephrin receptor subfamily within the protein-tyrosine kinase family, plays a crucial role in mediating developmental events, particularly within the nervous system. Featuring a single kinase domain and an extracellular region with a Cys-rich domain and 2 fibronectin type III repeats, EPH receptors are involved in binding ephrin-A and ephrin-B ligands. EphA2 specifically binds ephrin-A ligands and displays broad expression across various tissues, including esophagus (RPKM 37.8), urinary bladder (RPKM 18.3), and 21 other tissues. Additionally, mutations in this gene are associated with certain genetically-related cataract disorders, highlighting its significance in both developmental processes and ocular health.

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

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