

EPHA4 recombinant protein

Recombinant EPHA4 (570-986) protein

CATALOG #
AAA60388

HOST
Baculovirus

PRODUCT SYNONYMS

EPHA4; Recombinant EPHA4 (570-986) protein; Ephrin type-A receptor 4; EPH Receptor A4; HEK8; TYRO1; Tyrosine-Protein Kinase Receptor SEK; EK8; EPHA4 recombinant protein

PRODUCT SPECIFICATIONS

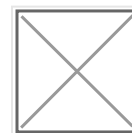
Host	Baculovirus
Form/Format	Recombinant EPHA4 (570-986) protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant EPHA4 (570-986) protein that includes amino acids 570-986 of human EPHA4 protein (accession number NP_001291465.1) was expressed in a baculovirus expression system and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 48.46kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



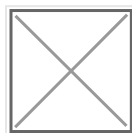
Application Data

HTRF assay for EPHA4 (570-986) activity 1 uM TK substrate was incubated with different concentrations of EPHA4 (570-986) protein in a 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1mM MnCl₂, 1 mM DTT, 5nM SEB and 100 uM ATP for 1 hour. Then 10 ul detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant EPHA4 (570-986) protein gel. 10% SDS-PAGE gel stained with Coomassie Blue. MW: 48.46kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for EPHA4 recombinant protein	EPHA4 (Ephrin type-A receptor 4) is a receptor tyrosine kinase which binds membrane-bound ephrin family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Highly promiscuous, it has the unique property among Eph receptors to bind and to be physiologically activated by both GPI-anchored ephrin-A and transmembrane ephrin-B ligands including EFNA1 and EFNB3. Upon activation by ephrin ligands, modulates cell morphology and integrin-dependent cell adhesion through regulation of the Rac, Rap and Rho GTPases activity. Plays an important role in the development of the nervous system controlling different steps of axonal guidance including the establishment of the corticospinal projections. May also control the segregation of motor and sensory axons during neuromuscular circuit development. In addition to its role in axonal guidance plays a role in synaptic plasticity. Activated by EFNA1 phosphorylates CDK5 at 'Tyr-15' which in turn phosphorylates NGEF regulating RHOA and dendritic spine morphogenesis. In the nervous system, also plays a role in repair after injury preventing axonal regeneration and in angiogenesis playing a role in central nervous system vascular formation.
Product Categories/Family for EPHA4 recombinant protein	Kinase; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight	48.46kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/epha4-recombinant-protein-baculovirus/60388>