

Product datasheet

Recombinant human Eph receptor A1/EphA1 protein ab101778

[2 Images](#)

Description

Product name	Recombinant human Eph receptor A1/EphA1 protein
Biological activity	The Specific activity of ab101778 was determined to be 28 nmol/min/mg.
Purity	> 90 % Densitometry. Purity was determined to be >90% by densitometry. Affinity purified.
Expression system	Baculovirus infected insect cells
Accession	<u>P21709</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	72 kDa including tags
Amino acids	569 to 976

Specifications

Our **Abpromise guarantee** covers the use of **ab101778** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot Functional Studies
Form	Liquid
Additional notes	<u>ab204877</u> (Poly (4:1 Glu, Tyr) peptide) can be utilized as a substrate for assessing kinase activity Previously labelled as Eph receptor A1.

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292%
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EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A 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. Binds with a low affinity EFNA3 and EFNA4 and with a high affinity to EFNA1 which most probably constitutes its cognate/functional ligand. Upon activation by EFNA1 induces cell attachment to the extracellular matrix inhibiting cell spreading and motility through regulation of ILK and downstream RHOA and RAC. Plays also a role in angiogenesis and regulates cell proliferation. May play a role in apoptosis.

Tissue specificity

Overexpressed in several carcinomas.

Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily. Contains 1 Eph LBD (Eph ligand-binding) domain. Contains 2 fibronectin type-III domains. Contains 1 protein kinase domain. Contains 1 SAM (sterile alpha motif) domain.

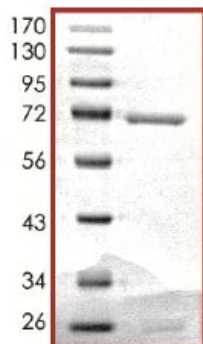
Post-translational modifications

Phosphorylated. Autophosphorylation is stimulated by its ligand EFNA1. Ubiquitinated.

Cellular localization

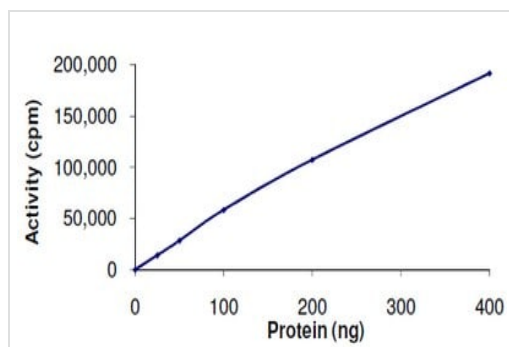
Cell membrane.

Images



SDS-PAGE showing ab101778 at approximately 72kDa.

SDS-PAGE - Recombinant human Eph receptor
A1/EphA1 protein (ab101778)



The Specific activity of ab101778 was determined to be 28 nmol/min/mg.

Functional Studies - Recombinant human Eph receptor A1/EphA1 protein (ab101778)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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