

## Product datasheet

# Recombinant mouse Eph receptor A1/EphA1 protein ab55900

[4 Images](#)

### Description

<b>Product name</b>	Recombinant mouse Eph receptor A1/EphA1 protein
<b>Biological activity</b>	Specific activity : 32 nmol/min/mg.
<b>Purity</b>	> 85 % Densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<b><u>Q60750</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Mouse
<b>Predicted molecular weight</b>	71 kDa
<b>Amino acids</b>	569 to 977
<b>Tags</b>	GST tag N-Terminus
<b>Additional sequence information</b>	Recombinant fragment, corresponding to amino acids 569-end of Mouse Eph receptor A1.

### Specifications

Our **Abpromise guarantee** covers the use of **ab55900** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	<b><u>ab204877</u></b> (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

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
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pH: 7.50

Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% 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.

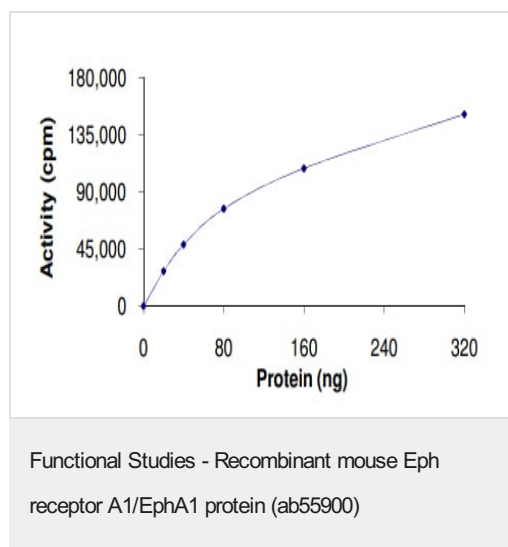
### Post-translational modifications

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

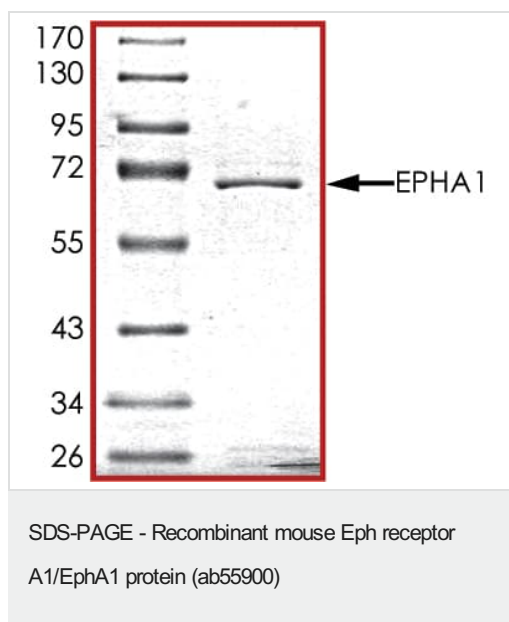
### Cellular localization

Cell membrane.

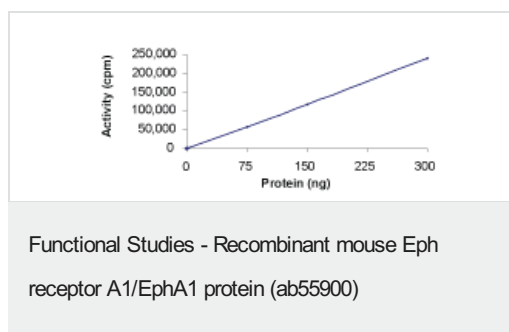
## Images



The specific activity of Eph receptor A1/EphA1 (ab55900) was determined to be 36 nmol/min/mg as per activity assay protocol



SDS PAGE analysis of ab55900



Kinase assay using ab55900.



ab55900 on SDS-PAGE.

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

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