

# EphA1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75241		
Synonyms:	Ephrin type-A receptor 1; hEpha1; EPHA1; EPH; EPHT; EPHT1		
Species:	Mouse		
Source:	HEK293		
Accession:	Q60750 (E27-E548)		
Gene ID:	13835		
Molecular Weight:	Approximately 68 kDa		

## PROPERTIES

AA Sequence	EEVTLMDTST	AQGELGWLLD	PPETGWSEVQ	QMLNGTPLYM			
	YQDCPIQEGG	DTDHWLRSNW	IYRGEEASRI	YVELQFTVRD			
	CKSFPGGAGP	LGCKETFNLF	YMESDQDVGI	QLRRPLFQKV			
	T T V A A D Q S F T	IRDLASGSVK	LNVERCSLGH	LTRRGLYLAF			
	HNPGSCVALV	SVRVFYQRCA	ETVHGLAHFP	DTLPGPGGLV			
	EVAGTCLSHA	QISLGSSGTP	RMHCSPDGEW	LVPVGQCQCE			
	PGYEESSGNV	GCTACPTGFY	RVDMNTLRCL	КСРQНSIAES			
	EGSTICTCEN	GHYRAPGEGP	QVACTRPPSA	P Q N L S F S T S G			
	TQLSLRWEPP	RDTGGRHDIR	YSVECLQCRG	IAQDGGPCQP			
	CGKGVHFSPA	ASGLTTSTVQ	VQGLEPYANY	TFTVKSQNRV			
	SGLDSSSPSS	ASLSINMGHA	ESLSGLSLKL	VKKEPRQLEL			
	TWAGSRPRNP	GGNLSYELHV	LNQDEEWHQM	VLEPRVLLTK			
	LQPDTTYIVR	VRTLTPLGPG	PFSPDHEFRT	SPPVSRSLTG			
	GE						
<b>Biological Activity</b>	Immobilized rmEphA1 at 2 µg/mL (100 µL/well) can bind Biotinylated rmEphrin-A1. The ED <sub>50</sub> for this effect is 28.67 ng/mI						
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.						
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Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> U. For long term storage it is						
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).						
Storago & Stability	Stared at 20°C for 2 years	After reconstitution it is st	able at 1°C for 1 wook or 200	C for longer It is recommended to fr	0070		
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. It is recommended to fre						
	anyuuts at -20 C 01 -00 C 1	oi exteriueu storage.					
Shinning	Poom temperature in cont	inental US: may yany alcowe	aero				
Sinbbing	Room temperature in cont	incritat 03, may vary elsewi	icic.				

## DESCRIPTION

#### Background

The EphA1 protein, a receptor tyrosine kinase, engages in promiscuous binding to membrane-bound ephrin-A family ligands on adjacent cells, initiating contact-dependent bidirectional signaling. The downstream pathway originating from the receptor is known as forward signaling, while the pathway downstream of the ephrin ligand is termed reverse signaling. EphA1 exhibits low-affinity binding to EFNA3 and EFNA4 and high-affinity binding to EFNA1, which likely constitutes its cognate/functional ligand. Upon activation by EFNA1, EphA1 induces cell attachment to the extracellular matrix, inhibiting cell spreading and motility through the regulation of ILK and downstream RHOA and RAC. Additionally, EphA1 plays a role in angiogenesis and regulates cell proliferation. It may also be involved in apoptosis processes, contributing to its diverse cellular functions.

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

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