



Rabbit Anti-Eph receptor A1 antibody

SL7498R

Product Name:	Eph receptor A1
Chinese Name:	酪氨酸蛋白激酶受体A1抗体
Alias:	EPH; EPH tyrosine kinase 1; EPH tyrosine kinase; EphA1; EPHA1_HUMAN; Ephrin receptor Eph A1; Ephrin type A receptor 1; Ephrin type-A receptor 1; EPHT 1; EPHT; EPHT1; Erythropoietin producing hepatoma amplified sequence; Erythropoietin-producing hepatoma receptor; Esk; hEpha1; MGC163163; Oncogene EPH; Soluble EPHA1 variant 1; Soluble EPHA1 variant 2; Tyrosine protein kinase receptor EPH; Tyrosine-protein kinase receptor EPH.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	105kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Eph receptor A1:101-200/976<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase

family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. This gene is expressed in some human cancer cell lines and has been implicated in carcinogenesis. [provided by RefSeq, Jul 2008]

Function:

The Eph family of receptors comprises the largest known family of receptor tyrosine kinases. Ligands of Eph family receptors are structurally related membrane-bound proteins that can be subdivided into two major subclasses, ephrin-A and ephrin-B. Expression of Eph receptors is tissue specific and appears to be tied to developmental events. Ligands in the ephrin-A subclass, including the prototype family member ephrin-A1 (B61), are membrane associated through glycosylphosphatidyl-inositol linkages, whereas ephrin-B subclass consists of ligands with transmembrane domains. The general role of the Eph family is in mediating repulsive cell-cell interaction.

Subunit:

Homodimer. Forms a signaling complex with LCK; PTK2B/PYK2 and PI3-kinase upon activation by EFNA1; regulates T-lymphocytes migration. Interacts (via SAM domain) with ILK (via ANK repeats); stimulated by EFNA1 but independent of the kinase activity of EPHA1. Interacts (kinase activity-dependent) with PTK2/FAK1.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein

Post-translational modifications:

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

Similarity:

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.

SWISS:

P21709

Gene ID:

2041

Database links:

[Entrez Gene: 2041](#) Human

[Entrez Gene: 13835](#) Mouse

[Entrez Gene: 312279](#) Rat

[Omim: 179610](#) Human

[SwissProt: P21709](#) Human

[SwissProt: Q60750](#) Mouse

[Unigene: 89839](#) Human

[Unigene: 133330](#) Mouse

[Unigene: 218221](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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