

## ARG58583 anti-EphA1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes EphA1
Tested Reactivity	Hu, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EphA1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 963-976 of Human EphA1. (HQKRILCSIQGFKD)
Conjugation	Un-conjugated
Alternate Names	EPH tyrosine kinase; EPH tyrosine kinase 1; Tyrosine-protein kinase receptor EPH; EPHT; Ephrin type-A receptor 1; hEpha1; EPH; Erythropoietin-producing hepatoma receptor; EC 2.7.10.1; EPHT1

### Application Instructions

Application table	Application	Dilution
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml

**Application Note**  
IHC-P: Antigen Retrieval: Heat mediated.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

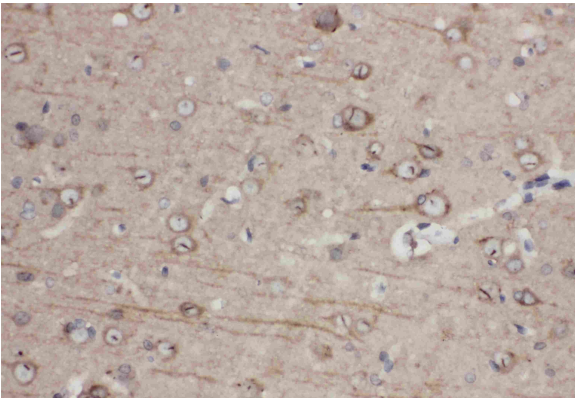
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

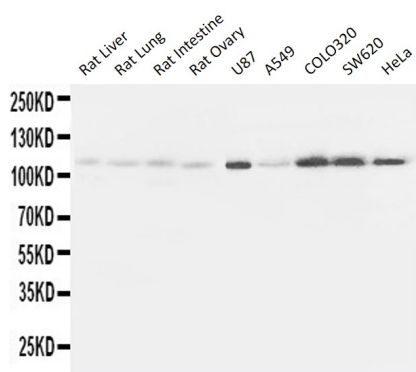
Gene Symbol	EPHA1
Gene Full Name	EPH receptor A1
Background	This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily 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	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. [UniProt]
Calculated Mw	108 kDa
PTM	Phosphorylated. Autophosphorylation is stimulated by its ligand EFNA1.  Ubiquitinated. [UniProt]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. [UniProt]

## Images



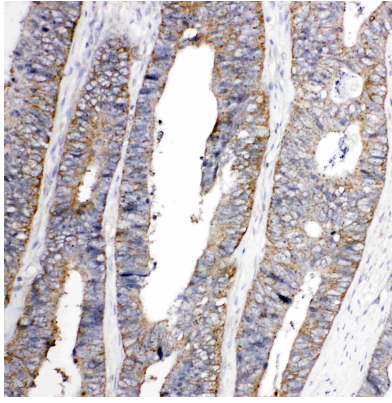
ARG58583 anti-EphA1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat Brain Tissue stained with ARG58583 anti-EphA1 antibody.



ARG58583 anti-EphA1 antibody WB image

Western blot: Rat Liver, Rat Lung, Rat Intestine, Rat Ovary, U87, A549, COLO320, SW620 and HeLa lysates stained with ARG58583 anti-EphA1 antibody.



**ARG58583 anti-EphA1 antibody IHC-P image**

Immunohistochemistry: Paraffin-embedded Human Colon Cancer Tissue stained with ARG58583 anti-EphA1 antibody.