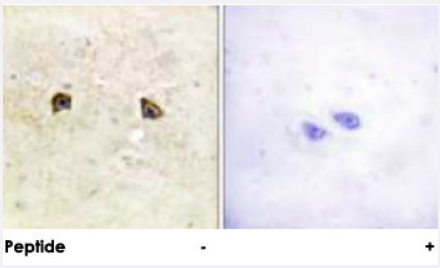
CellTx™

EPHB1/EPHA2 polyclonal antibody

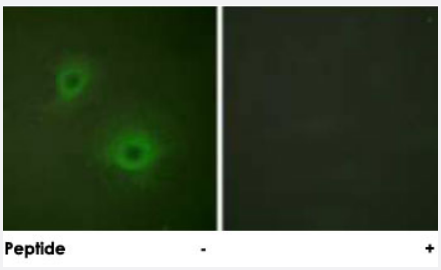
Catalog # PAB18349 Size 100 ug

Applications



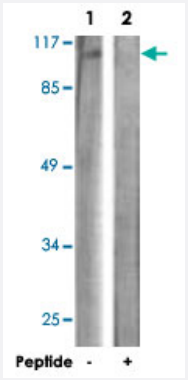
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using EPHB1/EPHA2 polyclonal antibody (Cat # PAB18349).
Peptide "+" means "peptide blocking".



Immunofluorescence

Immunofluorescence analysis of HUVEC cells, using EPHB1/EPHA2 polyclonal antibody (Cat # PAB18349).
Peptide "+" means "peptide blocking".



Western Blot (Cell lysate)

Western blot analysis of extracts from HepG2 cells, using EPHB1/EPHA2 polyclonal antibody (Cat # PAB18349).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EPHB1/EPHA2.

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Immunogen	A synthetic peptide corresponding to residues surrounding Y594/Y604 of human EPHB1/EPHA2.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to EPHB1/EPHA2.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:500-1:1000) ELISA (1:40000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human brain tissue using EPHB1/EPHA2 polyclonal antibody (Cat # PAB18349).
  Peptide "+" means "peptide blocking".

- Immunofluorescence

  Immunofluorescence analysis of HUVEC cells, using EPHB1/EPHA2 polyclonal antibody (Cat # PAB18349).
  Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of extracts from HepG2 cells, using EPHB1/EPHA2 polyclonal antibody (Cat # PAB18349).
  Peptide "+" means "peptide blocking".

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Gene Info — EPHA2

Entrez GeneID	1969
Gene Name	EPHA2
Gene Alias	ECK
Gene Description	EPH receptor A2
Omim ID	176946
Gene Ontology	Hyperlink
Gene Summary	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 th e nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an e xtracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin rece ptors are divided into 2 groups based on the similarity of their extracellular domain sequences an d their affinities for binding ephrin-A and ephrin-B ligands. This gene encodes a protein that binds ephrin-A ligands. [provided by RefSeq
Other Designations	ephrin receptor EphA2|epithelial cell receptor protein tyrosine kinase|protein tyrosine kinase|rece ptor protein tyrosine kinase regulated by p53 and E2F-1|soluble EPHA2 variant 1

Gene Info — EPHB1

Entrez GeneID	2047
Gene Name	EPHB1
Gene Alias	ELK, EPHT2, FLJ37986, Hek6, NET
Gene Description	EPH receptor B1
Omim ID	600600
Gene Ontology	Hyperlink
Gene Summary	Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, par ticularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosp hatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The E ph family of receptors are divided into 2 groups based on the similarity of their extracellular domai n sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene is a receptor for ephrin-B family members. [provided by RefSeq

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Other Designations	eph tyrosine kinase 2|ephrin receptor EphB1|soluble EPHB1 variant 1

Publication Reference

- Signal peptide prediction based on analysis of experimentally verified cleavage sites.

  Zhang Z, Henzel WJ.

  Protein Science 2004 Oct; 13(10):2819.

Pathway

- Axon guidance
- Axon guidance

Disease

- Carcinoma
- Cataract
- Depressive Disorder
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hearing Loss
- Parkinson disease
- Tobacco Use Disorder

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