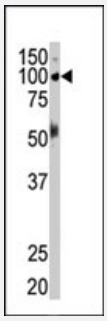
EPHB1 polyclonal antibody

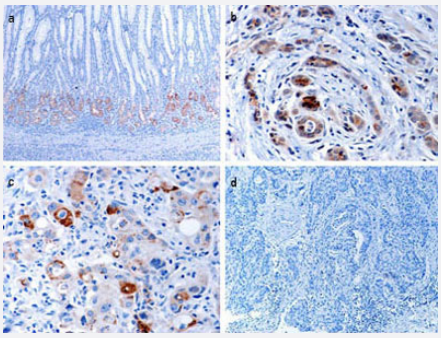
Catalog # PAB3018 Size 400 uL

Applications



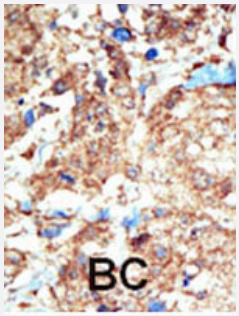
Western Blot (Tissue lysate)

Western blot analysis of EPHB1 polyclonal antibody (Cat # PAB3018) in mouse brain tissue. EPHB1 (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



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

Immunohistochemical analysis of EPHB1 in human gastric cancer tissues.
(a) EPHB1 protein expressed in normal mucosa at the glandular compartment and in a decreasing gradient from the glandular compartment to the foveolar compartment.
(b) EPHB1 protein focally positively stained in well-differentiated gastric cancer cells.
(c) EPHB1 protein is focally positive in poorly differentiated gastric cancer cells.
(d) Loss of EPHB1 expression in gastric cancer cells. (Provided by Jian-dong Wang,Department of Pathology Nanjing Jinling Hospital/Nanjing University School of Medicine)



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

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EPHB1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human EPHB1.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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.

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Gene Info — EPHB1

Entrez GeneID	2047
Protein Accession#	P54762
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, particularly 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 glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of 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. 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
Other Designations	eph tyrosine kinase 2|ephrin receptor EphB1|soluble EPHB1 variant 1

Publication Reference

- Downstream mediators of Ten-m3 signalling in the developing visual pathway.

  Glendining KA, Liu SC, Nguyen M, Dharmaratne N, Nagarajah R, Iglesias MA, Sawatari A, Leamey CA.

  BMC Neuroscience 2017 Dec; 18(1):78.

  Application: WB-Ti, Mouse, Mouse brain

- EphB1 is underexpressed in poorly differentiated colorectal cancers.

  Sheng Z, Wang J, Dong Y, Ma H, Zhou H, Sugimura H, Lu G, Zhou X.

  Pathobiology 2008 Oct; 75(5):274.

- Loss of expression of EphB1 protein in gastric carcinoma associated with invasion and metastasis.

  Wang JD, Dong YC, Sheng Z, Ma HH, Li GL, Wang XL, Lu GM, Sugimura H, Jin J, Zhou XJ.

  Oncology 2008 Apr; 73(3-4):238.

Pathway

- Axon guidance

Disease

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