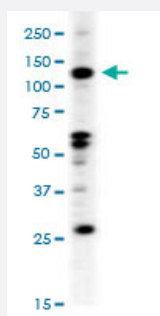


EPHB2 polyclonal antibody

Catalog # PAB3020

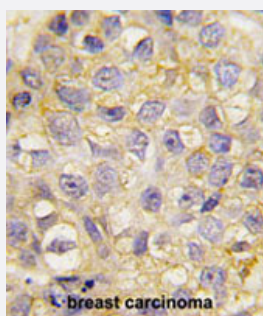
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of EPHB2 polyclonal antibody (Cat # PAB3020) in NCI-H460 cell lysate. EPHB2 (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)

Formalin-fixed and paraffin-embedded human breast carcinoma reacted with EPHB2 polyclonal antibody (Cat # PAB3020), 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.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of EPHB2.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human EPHB2.

Host

Rabbit

Reactivity

Human

Form

Liquid

Purification

Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) 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 should be handled by trained staff only.

Applications

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Gene Info — EPHB2

Entrez GeneID	2048
Protein Accession#	P29323
Gene Name	EPHB2
Gene Alias	CAPB, DRT, EPHT3, ERK, Hek5, MGC87492, PCBC, Tyro5
Gene Description	EPH receptor B2
Omim ID	600997 603688
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

OTTHUMP00000002914|OTTHUMP00000002916|developmentally-regulated eph-related tyrosine kinase|elk-related tyrosine kinase|eph tyrosine kinase 3|ephrin receptor EphB2|prostate cancer-brain cancer susceptibility

Publication Reference

- [Oligomeric structure of the human EphB2 receptor SAM domain.](#)

Thanos CD, Goodwill KE, Bowie JU.

Science 1999 Feb; 283(5403):833.

- [A variant transcript encoding an isoform of the human protein tyrosine kinase EPHB2 is generated by alternative splicing and alternative use of polyadenylation signals.](#)

Tang XX, Pleasure DE, Brodeur GM, Ikegaki N.

Oncogene 1998 Jul; 17(4):521.

- [cDNA cloning and tissue distribution of five human EPH-like receptor protein-tyrosine kinases.](#)

Fox GM, Holst PL, Chute HT, Lindberg RA, Janssen AM, Basu R, Welcher AA.

Oncogene 1995 Mar; 10(5):897.

Pathway

- [Axon guidance](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)

- [Cleft Palate](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Intestinal Polyposis](#)
- [Parkinson disease](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)