





# EphB2 Monoclonal Antibody

Catalog No	YP-Ab-12914
Isotype	IgG
Reactivity	Human
Applications	WB;IF;ELISA
Gene Name	EPHB2
Protein Name	Ephrin type-B receptor 2
Immunogen	Purified recombinant fragment of EphB2 (aa17-200) expressed in E. Coli.
Specificity	EphB2 Monoclonal Antibody detects endogenous levels of EphB2 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EPHB2; DRT; EPHT3; EPTH3; ERK; HEK5; TYRO5; Ephrin type-B receptor 2; Developmentally-regulated Eph-related tyrosine kinase; ELK-related tyrosine kinase; EPH tyrosine kinase 3; EPH-like kinase 5; EK5; hEK5; Renal carcinoma antigen NY-REN-47
Observed Band	<u> </u>
Cell Pathway	Cell membrane; Single-pass type I membrane protein. Cell projection, axon . Cell projection, dendrite .
Tissue Specificity	Brain, heart, lung, kidney, placenta, pancreas, liver and skeletal muscle. Preferentially expressed in fetal brain.
Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in EPHB2 are involved in the development of prostate cancer metastasis to the brain [MIM:603688].,disease:Defects in EPHB2 are involved in the progression of prostate cancer [MIM:176807].,function:Receptor for members of the ephrin-B family. Acts as a tumor suppressor.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SAM (sterile alpha motif) domain.,similarity:Contains 2 fibronectin type-III domains.,subunit:The ligand-activated form interacts with multiple proteins, including GTPase-activating protein (RASGAP) through its SH2 domain. Binds RASGAP through the



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#### juxtamembrane tyrosi

#### Background

This gene encodes a member of the Eph receptor family of receptor tyrosine kinase transmembrane glycoproteins. These receptors are composed of an N-terminal glycosylated ligand-binding domain, a transmembrane region and an intracellular kinase domain. They bind ligands called ephrins and are involved in diverse cellular processes including motility, division, and differentiation. A distinguishing characteristic of Eph-ephrin signaling is that both receptors and ligands are competent to transduce a signaling cascade, resulting in bidirectional signaling. This protein belongs to a subgroup of the Eph receptors called EphB. Proteins of this subgroup are distinguished from other members of the family by sequence homology and preferential binding affinity for membrane-bound ephrin-B ligands. Allelic variants are associated with prostate and brain cancer susceptibility. Alternative splicing results in multiple tr

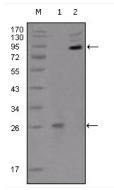
#### matters needing attention

Avoid repeated freezing and thawing!

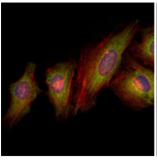
### **Usage suggestions**

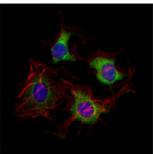
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

# **Products Images**



Western Blot analysis using EphB2 Monoclonal Antibody against truncated EphB2 recombinant protein (1) and extracellular EphB2(aa19-476)-hlgGFc transfected CHO-K1 cell lysate(2).





Immunofluorescence analysis of Hela (left) and HepG2 (right) cells using EphB2 Monoclonal Antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.