

EphB1/2 (phospho Tyr594/604) Polyclonal Antibody

Catalog No :	YP0551
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;ELISA
Target :	EphB1/2
Fields :	>>Axon guidance
Gene Name :	EPHB1/EPHB2
Protein Name :	Ephrin type-B receptor 1/2
Human Gene Id :	2047/1969
Human Swiss Prot No :	P54762/P29323
Mouse Gene Id :	270190
Rat Gene Id :	24338
Rat Swiss Prot No :	P09759
Immunogen :	The antiserum was produced against synthesized peptide derived from human EPHB1/2 around the phosphorylation site of Tyr594/604. AA range:561-610
Specificity :	Phospho-EphB1/2 (Y594/604) Polyclonal Antibody detects endogenous levels of EphB1/2 protein only when phosphorylated at Y594/604.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 110kD

Cell Pathway : Axon guidance;

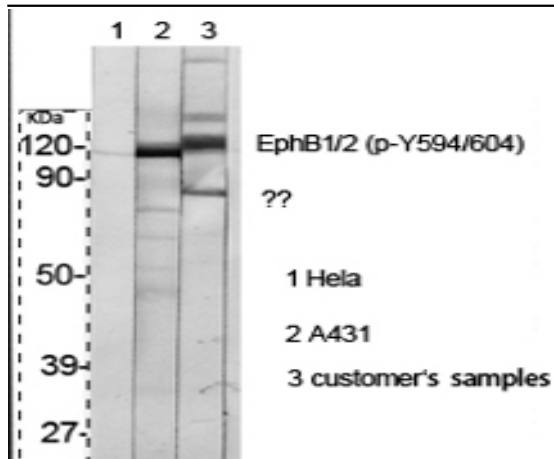
Background : Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol 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, Jul 2008],

Function : catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for members of the ephrin-B family. Binds to ephrin-B1, -B2 and -B3. May be involved in cell-cell interactions in the nervous system.,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 GRB2, GRB10 and NCK through their respective SH2 domains. The GRB10 SH2 domain binds EPHB1 through Tyr-928, while GRB2 binds residues within the catalytic domain. Interacts with EPHB6. The NCK SH2 domain binds EPHB1 through Tyr-594. Interacts with PRKCABP.,tissue specificity:Preferentially expressed in brain.,

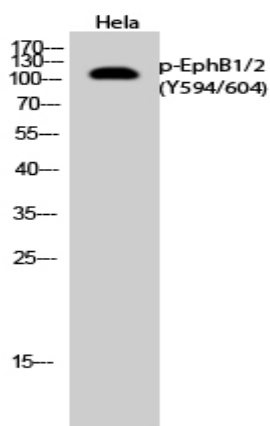
Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Early endosome membrane . Cell projection, dendrite .

Expression : Preferentially expressed in brain.

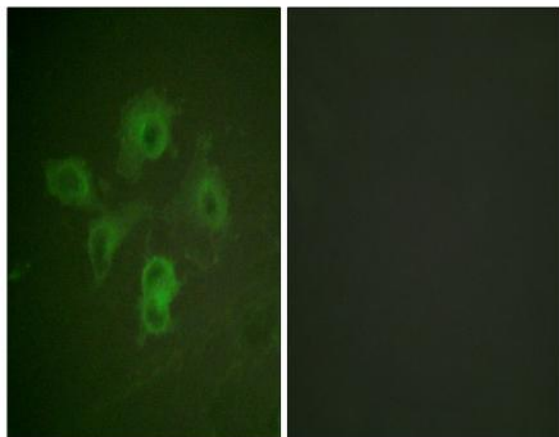
Products Images



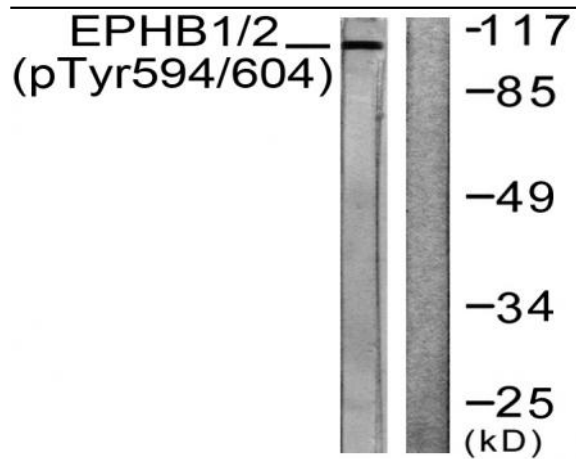
Western Blot analysis of various cells using Phospho-EphB1/2 (Y594/604) Polyclonal Antibody



Western Blot analysis of HeLa cells using Phospho-EphB1/2 (Y594/604) Polyclonal Antibody



Immunofluorescence analysis of HUVEC cells, using EPHB1/2 (Phospho-Tyr594/604) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using EPHB1/2 (Phospho-Tyr594/604) Antibody. The lane on the right is blocked with the phospho peptide.