

**EphB1/2 (phospho Tyr594/604) Polyclonal Antibody**

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

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Observed Band :** 110kD

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**Cell Pathway :** Axon guidance;

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**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],

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**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.,

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

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**Expression :** Preferentially expressed in brain.

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**Sort :** 5642

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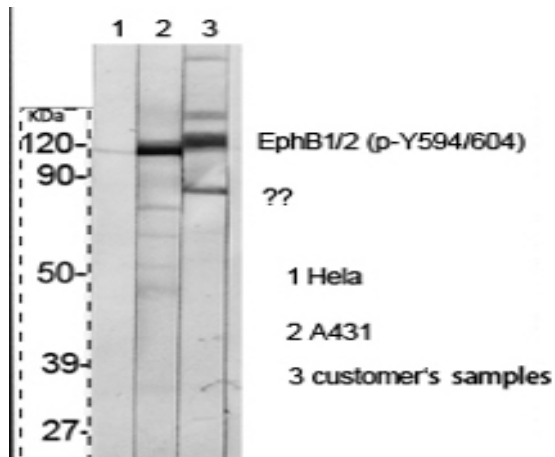
**No4 :** 1

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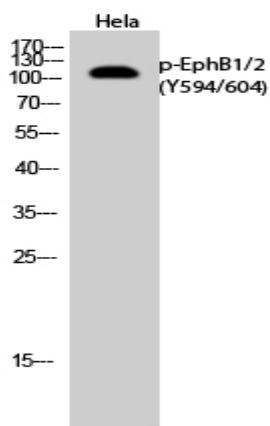
**Host :** Rabbit

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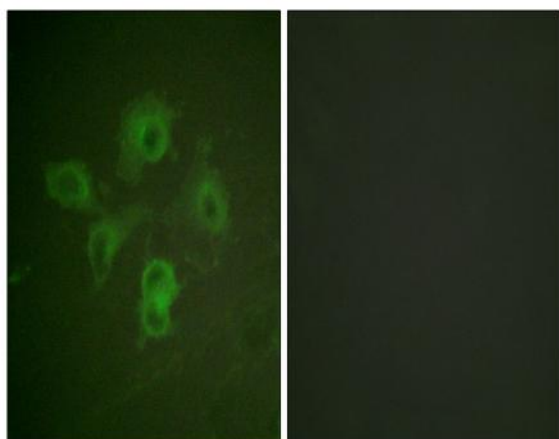
## Products Images



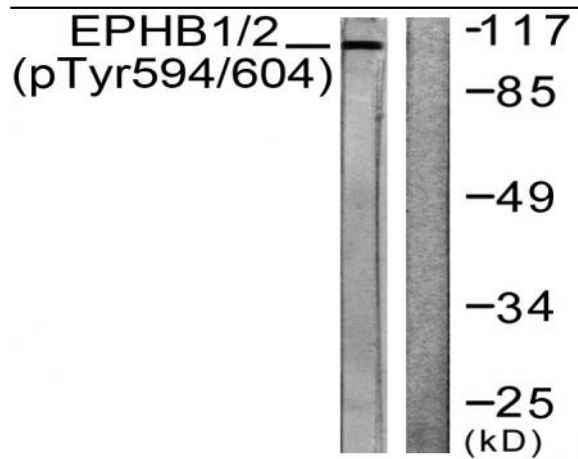
Western Blot analysis of various cells using Phospho-EphB1/2 (Y594/604) Polyclonal Antibody



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.