

## EphB1/2/3/4 Polyclonal Antibody

Catalog No: YT1585

**Reactivity:** Human; Mouse

**Applications:** WB;IHC;IF;ELISA

Target: EphB1/2/3/4

Fields: >>Axon guidance

Gene Name: EPHB1

**Protein Name:** Ephrin type-B receptor 1

**Human Gene Id:** 2047/2048/2049/2050

**Human Swiss Prot** 

P54762/P29323/P54753/P54760

No:

Mouse Gene ld: 270190/13845/13846

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

EPHB1/2/3/4. AA range:566-615

**Specificity:** EphB1/2/3/4 Polyclonal Antibody detects endogenous levels of EphB1/2/3/4

protein.

**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. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

**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)

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Observed Band: 118kD

**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.,

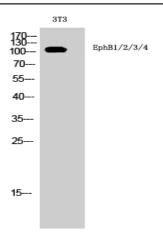
Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Early endosome

membrane. Cell projection, dendrite.

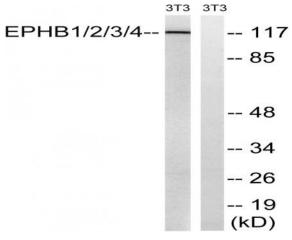
**Expression :** Preferentially expressed in brain.

## **Products Images**

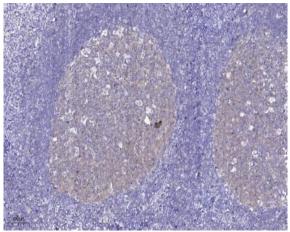
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Western Blot analysis of 3T3 cells using EphB1/2/3/4 Polyclonal Antibody



Western blot analysis of lysates from NIH/3T3 cells, treated with heat shock, using EPHB1/2/3/4 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).