

EphB1 Polyclonal Antibody

Catalog No: YT1582

Reactivity: Human; Mouse; Rat; Monkey

Applications: WB;ELISA

Target: EphB1

Fields: >>Axon guidance

Gene Name: EPHB1

Protein Name: Ephrin type-B receptor 1

P54762

Q8CBF3

Human Gene Id: 2047

Human Swiss Prot

No:

Mouse Gene ld: 270190

Mouse Swiss Prot

No:

Rat Gene ld: 24338

Rat Swiss Prot No: P09759

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

EPHB1. AA range:841-890

Specificity: EphB1 Polyclonal Antibody detects endogenous levels of EphB1 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. ELISA: 1:20000. Not yet tested in other applications.

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 120kD

Axon guidance; **Cell Pathway:**

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

20081.

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 ligandactivated 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.,

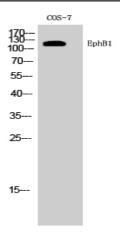
Subcellular Location:

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 COS-7 cells using EphB1 Polyclonal Antibody diluted at 1:1000