

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
Human Gene Id :	2047
Human Swiss Prot No :	P54762
Mouse Gene Id :	270190
Mouse Swiss Prot No :	Q8CBF3
Rat Gene Id :	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.

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 :	120kD
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 COS-7 cells using EphB1 Polyclonal Antibody diluted at 1:1000

