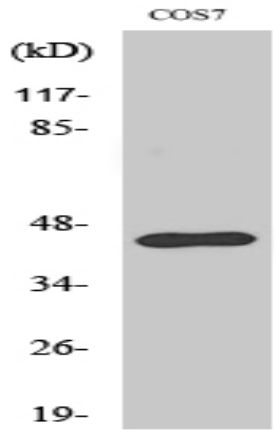
Best Tools for immunology Research

Ephrin-B1 Polyclonal Antibody

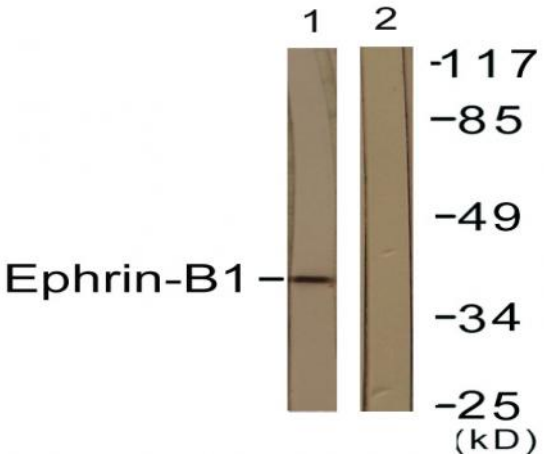
Catalog No :	YT1594
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;ELISA
Target :	Ephrin-B1
Fields :	>>Axon guidance
Gene Name :	EFNB1
Protein Name :	Ephrin-B1
Human Gene Id :	1947
Human Swiss Prot No :	P98172
Mouse Gene Id :	13641
Mouse Swiss Prot No :	P52795
Rat Swiss Prot No :	P52796
Immunogen :	The antiserum was produced against synthesized peptide derived from human EFNB1. AA range:283-332
Specificity :	Ephrin-B1 Polyclonal Antibody detects endogenous levels of Ephrin-B1 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: 1:40000. 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 :	38kD
Cell Pathway :	Axon guidance;
Background :	The protein encoded by this gene is a type I membrane protein and a ligand of Eph-related receptor tyrosine kinases. It may play a role in cell adhesion and function in the development or maintenance of the nervous system. [provided by RefSeq, Jul 2008],
Function :	disease:Defects in EFNB1 are a cause of craniofrontonasal syndrome (CFNS) [MIM:304110]; also known as craniofrontonasal dysplasia (CFND). CFNS is an X-linked inherited syndrome characterized by hypertelorism, coronal synostosis with brachycephaly, downslanting palpebral fissures, clefting of the nasal tip, joint anomalies, longitudinally grooved fingernails and other digital anomalies.,function:Binds to the receptor tyrosine kinases EPHB1 and EPHA1. Binds to, and induce the collapse of, commissural axons/growth cones in vitro. May play a role in constraining the orientation of longitudinally projecting axons.,induction:By TNF-alpha.,PTM:Inducible phosphorylation of tyrosine residues in the cytoplasmic domain.,similarity:Belongs to the ephrin family.,subunit:Interacts with GRIP1 and GRIP2.,tissue specificity:Heart, placenta, lung, liver, skeletal muscle, kidney, pancreas.,
Subcellular Location :	Cell membrane ; Single-pass type I membrane protein . Membrane raft . May recruit GRIP1 and GRIP2 to membrane raft domains. .; [Ephrin-B1 C-terminal fragment]: Cell membrane ; Single-pass type I membrane protein .; [Ephrin-B1 intracellular domain]: Nucleus . Colocalizes with ZHX2 in the nucleus. .
Expression :	Widely expressed (PubMed:8070404, PubMed:7973638). Detected in both neuronal and non-neuronal tissues (PubMed:8070404, PubMed:7973638). Seems to have particularly strong expression in retina, sciatic nerve, heart and spinal cord (PubMed:7973638).

Products Images



Western Blot analysis of various cells using Ephrin-B1 Polyclonal Antibody



Western blot analysis of lysates from COS7 cells, using EFNB1 Antibody. The lane on the right is blocked with the synthesized peptide.