

Ephrin-B1/2 (phospho Tyr329) Polyclonal Antibody

Catalog No: YP1066

Reactivity: Human; Mouse; Rat

Applications: IHC;IF;ELISA

Target: Ephrin-B1/2

Fields: >>Axon guidance

Gene Name: EFNB1/EFNB2

Protein Name: Ephrin-B1/2

Human Gene Id: 1947/1948

Human Swiss Prot

P98172/P52799

No:

Mouse Gene Id: 13641/13642

Rat Swiss Prot No: P52796

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

Ephrin B1/B2 around the phosphorylation site of Tyr329. AA range:295-344

Specificity: Phospho-Ephrin-B1/2 (Y329) Polyclonal Antibody detects endogenous levels of

Ephrin-B1/2 protein only when phosphorylated at Y329.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: 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)

Molecularweight: 37kD

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.

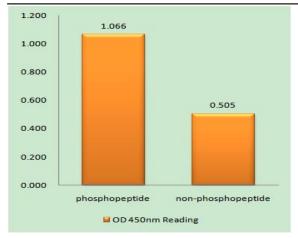
Expression: Widely expressed (PubMed:8070404, PubMed:7973638). Detected in both

neuronal and non-neuronal tissues (PubMed:8070404, PubMed:7973638). Seems to have particularly strong expression in retina, sciatic nerve, heart and

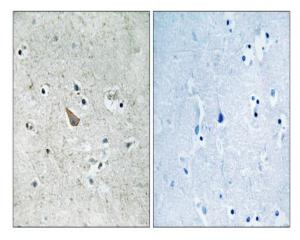
spinal cord (PubMed:7973638).

Products Images

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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Ephrin B1/B2 (Phospho-Tyr329) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Ephrin B1/B2 (Phospho-Tyr329) Antibody. The picture on the right is blocked with the phospho peptide.