Ephrin-B1/2 (Phospho Tyr330) Rabbit pAb

CatalogNo: YP0284 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 59kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
ELISA 1:40000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human EFNB1/2 around the phosphorylation site of Tyr330. AA range:284-333
Specificity	Phospho-Ephrin-B1/2 (Y330) Polyclonal Antibody detects endogenous levels of Ephrin-B1/2 protein only when phosphorylated at Y330.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):NIyYK

Target Information

Gene name EFNB1/EFNB2

Protein Name Ephrin-B1/Ephrin-B2

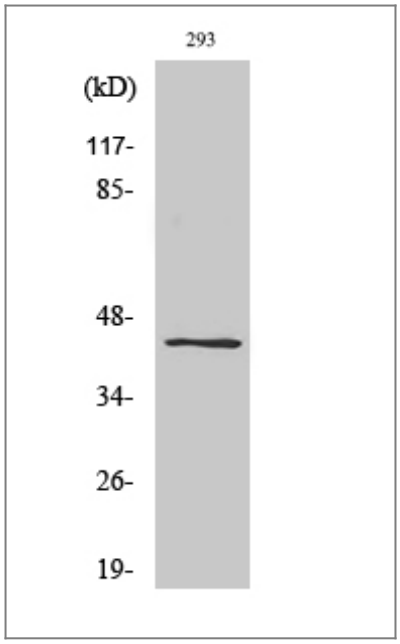
Organism	Gene ID	UniProt ID
Human	1947; 1948;	P98172; P52799;
Mouse	13641; 13642;	
Rat		P52796;

Cellular Localization 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. .

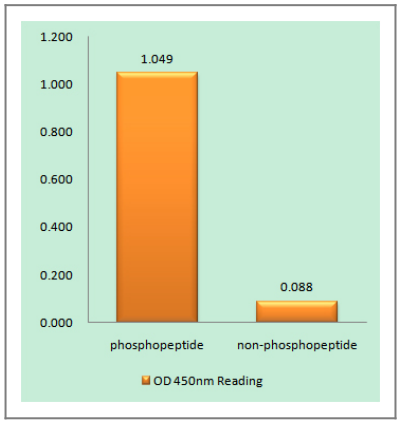
Tissue specificity Widely expressed (PubMed:8070404, PubMed:7973638). Detected in both neuronal and non-neuronal tissues (PubMed:8070404, PubMed:7973638). Seems to have particularly strong expression in retina, sciatic nerve, heart and spinal cord (PubMed:7973638).

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.,

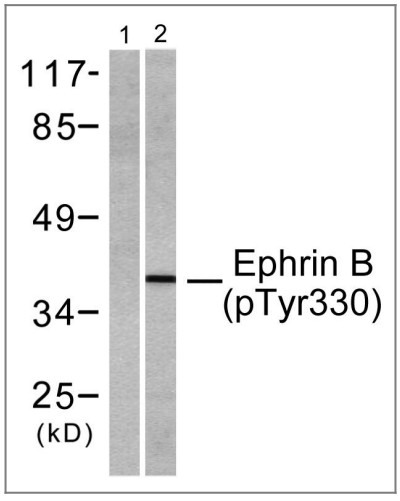
Validation Data



Western Blot analysis of various cells using Phospho-Ephrin-B1/2 (Y330) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using EFNB1/2 (Phospho-Tyr330) Antibody



Western blot analysis of lysates from 293 cells treated with TNF-a 20ng/ml 30', using EFNB1/2 (Phospho-Tyr330) Antibody. The lane on the left is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
Ephrin-B1/2 (Phospho Tyr330) Rabbit pAb