



EphB4 Polyclonal Antibody

Catalog No	YP-Ab-13232
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	EPHB4
Immunogen	The antiserum was produced against synthesized peptide derived from human EPHB4. AA range:571-620
Specificity	EphB4 Polyclonal Antibody detects endogenous levels of EphB4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:2.7.10.1;EPH receptor B4;Ephrin type B receptor 4;Ephrin type-B receptor 4; HTK;EphB4;MYK1;TYRO11;Hepatoma transmembrane kinase;Tyrosine-protein kinase TYRO11
Observed Band	108kD
Calculated Molecular Weight	108kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein .
Tissue Specificity	Abundantly expressed in placenta but also detected in kidney, liver, lung, pancreas, skeletal muscle and heart. Expressed in primitive and myeloid, but not lymphoid, hematopoietic cells. Also observed in cell lines derived from liver, breast, colon, lung, melanocyte and cervix.
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-B2. May have a role in events mediating differentiation and development., PTM:Autophosphorylated.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,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.,tissue specificity:Abundantly
expressed in placenta and in a range of primary tissues and malignant cell lines.
Expressed in fetal, but not adult, brain, and in primitive and myeloid, but not
lymphoid, hematopoietic cells.,

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 binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq, Jul 2008],

matters needing attention

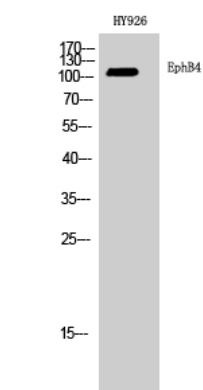
Avoid repeated freezing and thawing!

Usage suggestions

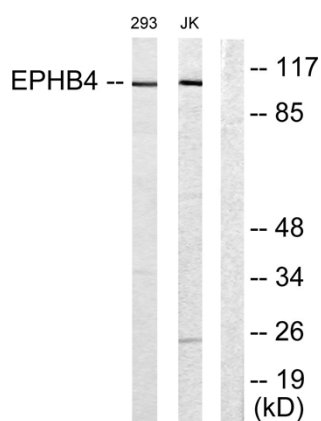
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



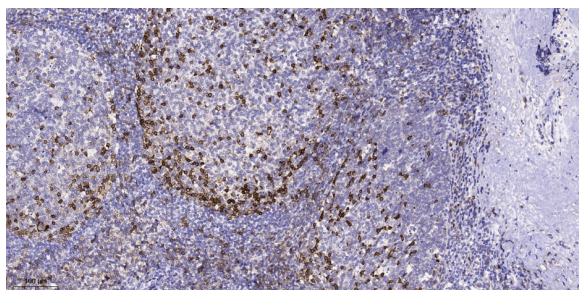
Products Images



Western Blot analysis of HY926 cells using EphB4 Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from Jurkat and 293 cells, using EPHB4 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).