

EphB3 Monoclonal Antibody

Catalog No :	YM0231
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	EphB3
Fields :	>>Axon guidance
Gene Name :	EPHB3
Protein Name :	Ephrin type-B receptor 3
Human Gene Id :	2049
Human Swiss Prot No :	P54753
Mouse Swiss Prot No :	P54754
Immunogen :	Purified recombinant fragment of EphB3 (aa39-212) expressed in E. Coli.
Specificity :	EphB3 Monoclonal Antibody detects endogenous levels of EphB3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	110kD
Cell Pathway :	Axon guidance;

P References :

1. Oncogene. 1998 Jan 29;16(4):471-80.
2. Pharmacol Ther. 1998 Mar;77(3):151-81.
3. Proc Natl Acad Sci U S A. 1998 Aug 18;95(17):9779-84.
4. J Biol Chem. 2002 Jun 21;277(25):23037-43.

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 two 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. This gene encodes a receptor for ephrin-B family members. [provided by RefSeq, Mar 2010],

Function :

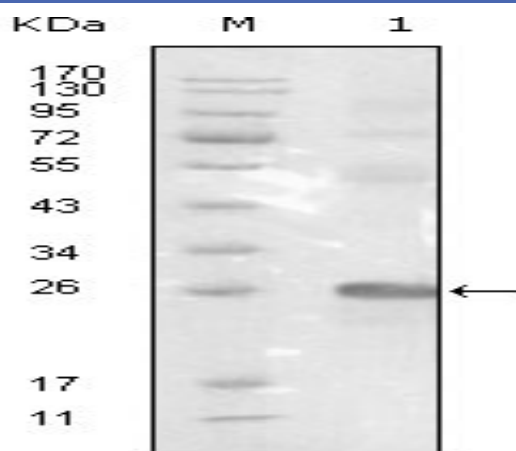
catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for members of the ephrin-B family. Binds to ephrin-B1 and -B2.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SAM (sterile alpha motif) domain.,similarity:Contains 2 fibronectin type-III domains.,tissue specificity:Ubiquitous.,

Subcellular Location :

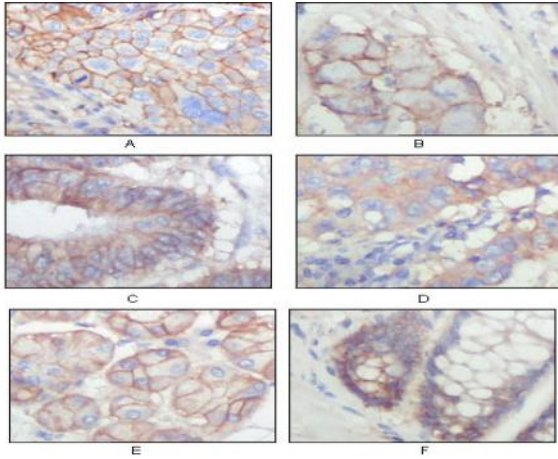
Cell membrane ; Single-pass type I membrane protein . Cell projection, dendrite

Expression :

Ubiquitous.

Products Images

Western Blot analysis using EphB3 Monoclonal Antibody against truncated EphB3-His recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human lung squamous cell carcinoma (A), lung adenocarcinoma (B), colon carcinoma (C), breast carcinoma (D), normal sublingual gland (E), normal rectal (F), showing membrane localization with DAB staining