

EphB1 Monoclonal Antibody

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|------------------------------|---|
| Catalog No : | YM0229 |
| Reactivity : | Human |
| Applications : | WB;IHC;IF;ELISA |
| Target : | EphB1 |
| Fields : | >>Axon guidance |
| Gene Name : | EPHB1 |
| Protein Name : | Ephrin type-B receptor 1 |
| Human Gene Id : | 2047 |
| Human Swiss Prot No : | P54762 |
| Mouse Swiss Prot No : | Q8CBF3 |
| Immunogen : | Purified recombinant fragment of EphB1 (aa19-133) expressed in E. Coli. |
| Specificity : | EphB1 Monoclonal Antibody detects endogenous levels of EphB1 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. J Cell Sci. 2002 Aug 1;115(Pt 15):3073-81.
2. Proc Natl Acad Sci U S A. 2002 Jul 9;99(14):9219-24.

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 is a receptor for ephrin-B family members. [provided by RefSeq, Jul 2008],

Function :

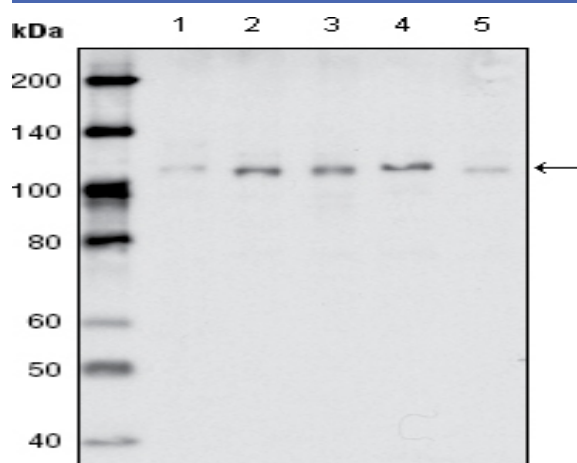
catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for members of the ephrin-B family. Binds to ephrin-B1, -B2 and -B3. May be involved in cell-cell interactions in the nervous system.,similarity:Belongs to the protein kinase superfamily. Tyr protein 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.,subunit:The ligand-activated form interacts with GRB2, GRB10 and NCK through their respective SH2 domains. The GRB10 SH2 domain binds EPHB1 through Tyr-928, while GRB2 binds residues within the catalytic domain. Interacts with EPHB6. The NCK SH2 domain binds EPHB1 through Tyr-594. Interacts with PRKCABP.,tissue specificity:Preferentially expressed in brain.,

Subcellular Location :

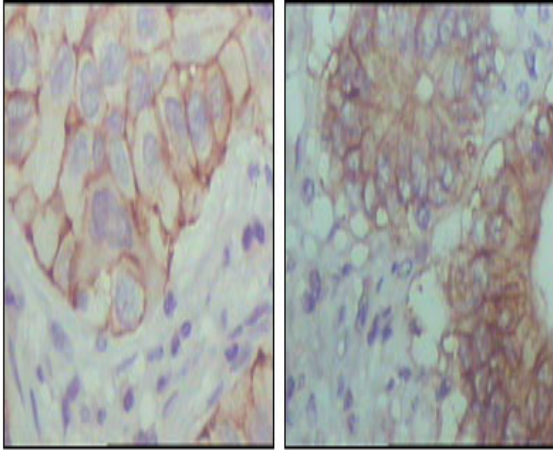
Cell membrane ; Single-pass type I membrane protein . Early endosome membrane . Cell projection, dendrite .

Expression :

Preferentially expressed in brain.

Products Images

Western Blot analysis using EphB1 Monoclonal Antibody against MDA-MB-468 (1), MDA-MB-453 (2), MCF-7 (3), T47D (4) and SKBR-3 (5) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lung cancer (left) and colon cancer (right) showing cytoplasmic localization with DAB staining using EphB1 Monoclonal Antibody.