

EphA8 Monoclonal Antibody

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| Catalog No : | YM0228 |
| Reactivity : | Human |
| Applications : | WB;ELISA |
| Target : | EphA8 |
| Fields : | >>Axon guidance |
| Gene Name : | EPHA8 |
| Protein Name : | Ephrin type-A receptor 8 |
| Human Gene Id : | 2046 |
| Human Swiss Prot No : | P29322 |
| Mouse Swiss Prot No : | O09127 |
| Immunogen : | Purified recombinant fragment of EphA8 (aa70-150) expressed in E. Coli. |
| Specificity : | EphA8 Monoclonal Antibody detects endogenous levels of EphA8 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. ELISA: 1:10000. Not yet tested in other applications. |
| Purification : | Affinity purification |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Molecularweight : | 111kD |
| Cell Pathway : | Axon guidance; |

P References :

1. Curr Opin Neurobiol. 2004 Jun;14(3):288-96.
2. Oncogene. 2005 Jun 16;24(26):4243-56.

Background :

This gene encodes a member of the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin 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. The protein encoded by this gene functions as a receptor for ephrin A2, A3 and A5 and plays a role in short-range contact-mediated axonal guidance during development of the mammalian nervous system. [provided by RefSeq, Jul 2008],

Function :

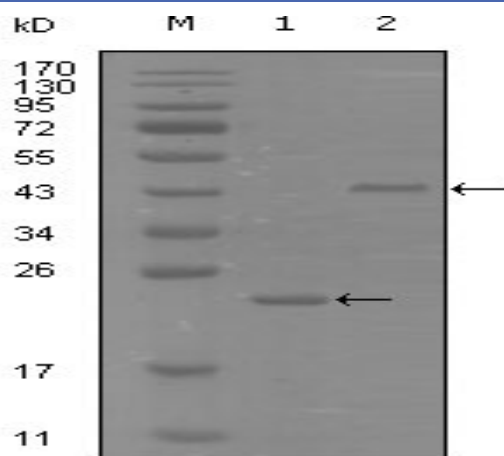
catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for members of the ephrin-A family.,PTM:Phosphorylation on Tyr-616 is critical for association with FYN.,PTM:Phosphorylation on Tyr-839 modulates tyrosine kinase activity.,similarity:Belongs to 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:Interacts with FYN (By similarity). Interacts with ANKS1B.,

Subcellular Location :

Cell membrane ; Single-pass type I membrane protein . Cell projection . Early endosome membrane . Undergoes clathrin-mediated endocytosis upon EFNA5-binding and is targeted to early endosomes. .

Expression :

Brain,Eye,

Products Images


Western Blot analysis using EphA8 Monoclonal Antibody against truncated Trx-EphA8 recombinant protein (1) and truncated MBP-EphA8(aa70-150) recombinant protein (2).