

EphA8 Monoclonal Antibody

Catalog No: YM0228

Reactivity: Human

Applications: WB;ELISA

Target: EphA8

Fields: >>Axon guidance

Gene Name: EPHA8

Protein Name: Ephrin type-A receptor 8

P29322

O09127

Human Gene ld: 2046

Human Swiss Prot

No:

Mouse Swiss Prot

No:

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;

1/3



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,

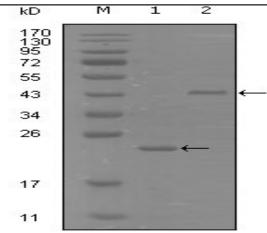
Sort: 5639

No4: 1

Host: Mouse

Modifications: Unmodified

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).