

## EphA3 Monoclonal Antibody

<b>Catalog No :</b>	YM0223
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	EphA3
<b>Fields :</b>	>>Axon guidance
<b>Gene Name :</b>	EPHA4
<b>Protein Name :</b>	Ephrin type-A receptor 4
<b>Human Gene Id :</b>	2043
<b>Human Swiss Prot No :</b>	P54764
<b>Mouse Swiss Prot No :</b>	Q03137
<b>Immunogen :</b>	Purified recombinant fragment of EphA3 (aa751-983) expressed in E. Coli.
<b>Specificity :</b>	EphA3 Monoclonal Antibody detects endogenous levels of EphA3 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	110kD
<b>Cell Pathway :</b>	Axon guidance;

**P References :**

1. Nat Genet. 2004 Jan;36(1):40-5.
2. Cell. 2005 Oct 21;123(2):291-304.

**Background :**

This gene belongs to 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015],

**Function :**

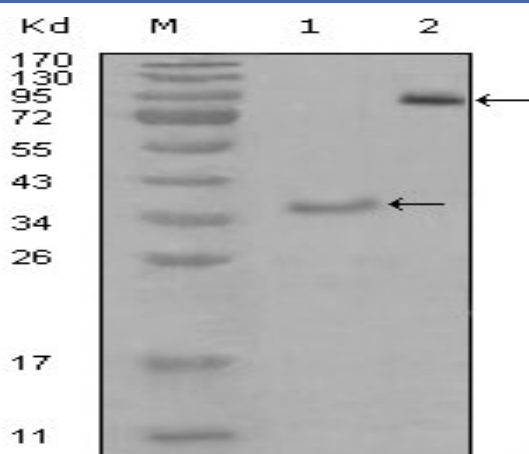
catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,domain:The protein kinase domain mediates interaction with NGEF/ephexin-1.,function:Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A4 and -A5. Binds more poorly to ephrin-A2 and -A3. May play a role in a signal transduction process involved in hindbrain pattern formation.,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.,subunit:Interacts with the src family kinase, p59-Fyn, through the major phosphorylation site at position Tyr-602. Interacts with NGEF/ephexin-1.,tissue specificity:Ubiquitous.

**Subcellular Location :**

Cell membrane ; Single-pass type I membrane protein . Cell projection, axon . Cell projection, dendrite . Cell junction, synapse, postsynaptic density membrane . Early endosome . Cell junction, adherens junction . Clustered upon activation and targeted to early endosome. .

**Expression :**

Ubiquitous.

**Products Images**


Western Blot analysis using EphA3 Monoclonal Antibody against truncated Trx-EphA3 recombinant protein (1) and truncated EphA3(aa566-983)-hlgGfc transfected CHO-K1 cell lysate(2).