

## EphA5 Monoclonal Antibody

<b>Catalog No :</b>	YM0225
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	EphA5
<b>Fields :</b>	>>Axon guidance
<b>Gene Name :</b>	EPHA5
<b>Protein Name :</b>	Ephrin type-A receptor 5
<b>Human Gene Id :</b>	2044
<b>Human Swiss Prot No :</b>	P54756
<b>Mouse Swiss Prot No :</b>	Q60629
<b>Immunogen :</b>	Purified recombinant fragment of EphA5 (aa620-774) expressed in E. Coli.
<b>Specificity :</b>	EphA5 Monoclonal Antibody detects endogenous levels of EphA5 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>	115kD
<b>Cell Pathway :</b>	Axon guidance;

**P References :**

1. Nat Rev Neurosci. 2001 Mar;2(3):155-64.
2. BMC Cancer. 2006 Jun 1;6:144.

**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. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Aug 2013],

**Function :**

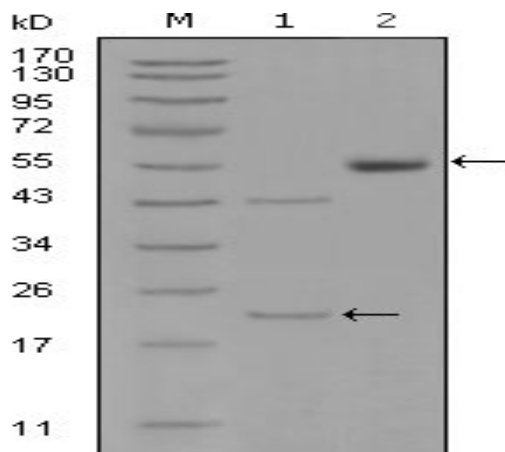
alternative products:Additional isoforms seem to exist,catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A2, -A3, -A4 and -A5.,similarity:Belongs to the protein kinase superfamily. Tyr protein 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.,tissue specificity:Almost exclusively expressed in the nervous system.,

**Subcellular Location :**

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

**Expression :**

Almost exclusively expressed in the nervous system in cortical neurons, cerebellar Purkinje cells and pyramidal neurons within the cortex and hippocampus. Display an increasing gradient of expression from the forebrain to hindbrain and spinal cord.

**Products Images**


Western Blot analysis using EphA5 Monoclonal Antibody against truncated EPHA5-His recombinant protein (1) and truncated EPHA5(aa620-774)-hlgGfc transfected CHO-K1 cell lysate(2).