

EphA2/5 (phospho Tyr594) Polyclonal Antibody

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| Catalog No : | YP0506 |
| Reactivity : | Human;Mouse |
| Applications : | WB;ELISA |
| Target : | EphA2/5 |
| Fields : | >>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>PI3K-Akt signaling pathway;>>Axon guidance |
| Gene Name : | EPHA2/EPHA5 |
| Protein Name : | Ephrin type-A receptor 2/5 |
| Human Gene Id : | 1969/2044 |
| Human Swiss Prot No : | P29317/P54756 |
| Mouse Gene Id : | 13836/13839 |
| Immunogen : | Synthesized phospho-peptide around the phosphorylation site of human EphA2/5 (phospho Tyr594) |
| Specificity : | Phospho-EphA2/5 (Y594) Polyclonal Antibody detects endogenous levels of EphA2/5 protein only when phosphorylated at Y594. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications. |
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Concentration : | 1 mg/ml |

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 110kD

Cell Pathway : Axon guidance;

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. This gene encodes a protein that binds ephrin-A ligands. Mutations in this gene are the cause of certain genetically-related cataract disorders.[provided by RefSeq, May 2010],

Function : 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, -A3, -A4 and -A5.,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 SLA (By similarity). Interacts with INPPL1/SHIP2.,tissue specificity:Expressed most highly in tissues that contain a high proportion of epithelial cells, e.g., skin, intestine, lung, and ovary.,

Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Cell projection, ruffle membrane ; Single-pass type I membrane protein . Cell projection, lamellipodium membrane ; Single-pass type I membrane protein . Cell junction, focal adhesion . Present at regions of cell-cell contacts but also at the leading edge of migrating cells (PubMed:19573808, PubMed:20861311). Relocates from the plasma membrane to the cytoplasmic and perinuclear regions in cancer cells (PubMed:18794797). .

Expression : Expressed in brain and glioma tissue and glioma cell lines (at protein level). Expressed most highly in tissues that contain a high proportion of epithelial cells, e.g. skin, intestine, lung, and ovary.

Products Images

Western Blot analysis of JK cells using Phospho-EphA2/5 (Y594)
Polyclonal Antibody

