

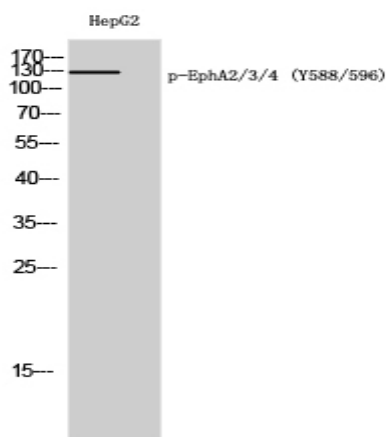
EphA2/3/4 (phospho Tyr588/596) Polyclonal Antibody

| | |
|------------------------------|---|
| Catalog No : | YP0550 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;IF;ELISA |
| Target : | EphA2/3/4 |
| Fields : | >>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>PI3K-Akt signaling pathway;>>Axon guidance |
| Gene Name : | EPHA2/3/4 |
| Protein Name : | Ephrin type-A receptor 2/3/4 |
| Human Gene Id : | 1969/2042/2043 |
| Human Swiss Prot No : | P29317/P29320/P54764 |
| Mouse Gene Id : | 13836/13838 |
| Rat Gene Id : | 29210 |
| Rat Swiss Prot No : | O08680 |
| Immunogen : | The antiserum was produced against synthesized peptide derived from human EPHA2/3 around the phosphorylation site of Tyr588/596. AA range:556-605 |
| Specificity : | Phospho-EphA2/3/4 (Y588/596) Polyclonal Antibody detects endogenous levels of EphA2/3/4 protein only when phosphorylated at Y588/596. |
| 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. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications. |

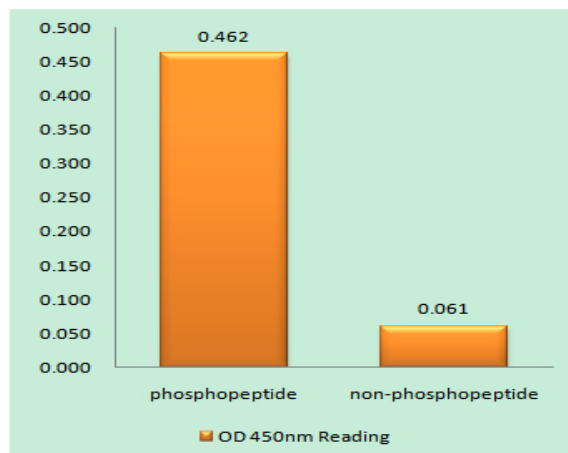
| | |
|-------------------------------|--|
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Observed Band : | 130kD |
| 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. |
| Sort : | 5618 12677S |

| | |
|------------------------|---------|
| No2 : | 1 |
| Host : | Rabbit |
| Modifications : | Phospho |

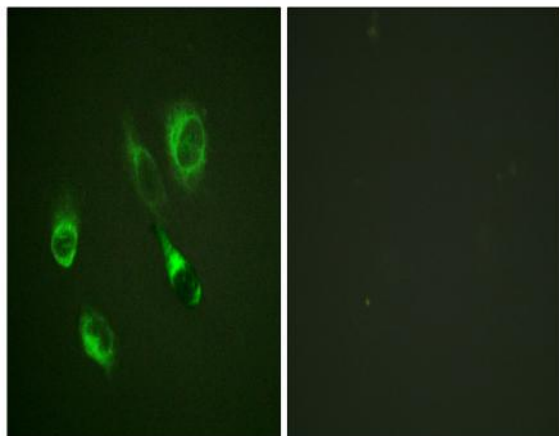
Products Images



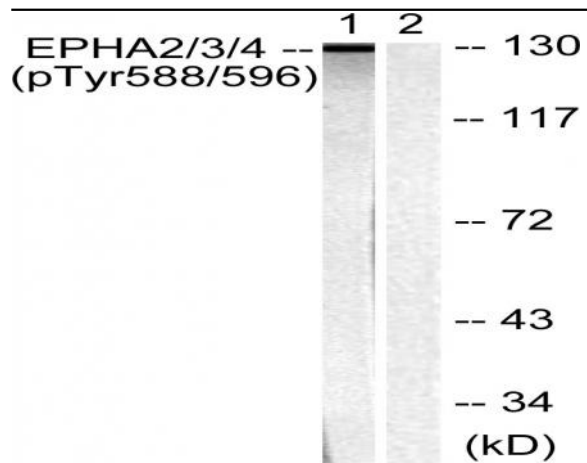
Western Blot analysis of HepG2 cells using Phospho-EphA2/3/4 (Y588/596) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using EPHA2/3 (Phospho-Tyr588/596) Antibody



Immunofluorescence analysis of HeLa cells, using EPHA2/3 (Phospho-Tyr588/596) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using EPHA2/3 (Phospho-Tyr588/596) Antibody. The lane on the right is blocked with the phospho peptide.