

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

P29317/P29320/P54764

Human Gene Id: 1969/2042/2043

Human Swiss Prot

No:

Mouse Gene Id: 13836/13838

Rat Gene ld: 29210

Rat Swiss Prot No: 008680

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, lgG

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

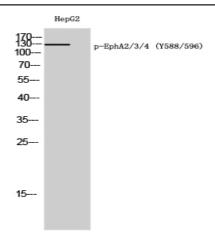
(PubMed:18794797)...

Expression: Expressed in brain and glioma tissue and glioma cell lines (at protein level).

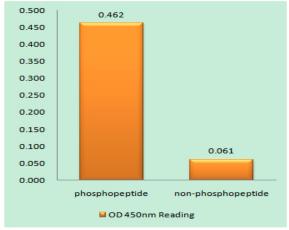
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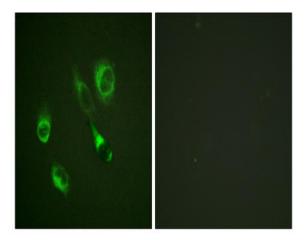
Products Images



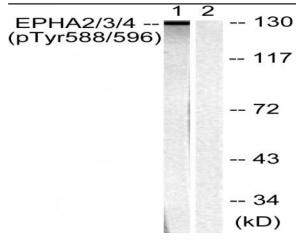
Western Blot analysis of HepG2 cells using Phospho-EphA2/3/4 (Y588/596) Polyclonal Antibody



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.