

## EphA2 (phospho Tyr588) Polyclonal Antibody

Catalog No: YP0098

**Reactivity:** Human; Mouse

**Applications:** WB;ELISA

Target: EphA2

**Fields:** >>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling

pathway;>>PI3K-Akt signaling pathway;>>Axon guidance

Gene Name: EPHA2

**Protein Name:** Ephrin type-A receptor 2

P29317

Q03145

Human Gene Id: 1969

**Human Swiss Prot** 

No:

Mouse Gene Id: 13836

**Mouse Swiss Prot** 

No:

Immunogen: Synthesized phospho-peptide around the phosphorylation site of human EphA2

(phospho Tyr588)

Specificity: Phospho-EphA2 (Y588) Polyclonal Antibody detects endogenous levels of

EphA2 protein only when phosphorylated at Y588.

**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.

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**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

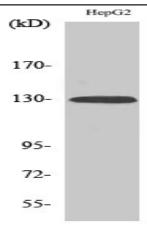
(PubMed:18794797)...

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

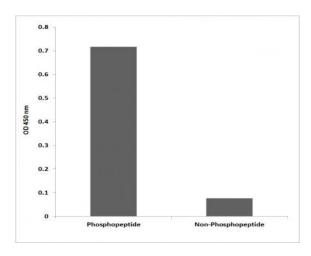
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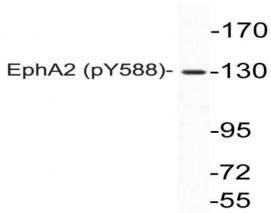
## **Products Images**



Western Blot analysis of various cells using Phospho-EphA2 (Y588) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using EphA2 (Phospho-Tyr588) Antibody



Western blot analysis of lysates from HepG2 cell, using phospho-EphA2 (Phospho-Tyr588) antibody.