

## EphA2 Monoclonal Antibody

<b>Catalog No :</b>	YM0222
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	EphA2
<b>Fields :</b>	>>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>PI3K-Akt signaling pathway;>>Axon guidance
<b>Gene Name :</b>	EPHA2
<b>Protein Name :</b>	Ephrin type-A receptor 2
<b>Human Gene Id :</b>	1969
<b>Human Swiss Prot No :</b>	P29317
<b>Mouse Swiss Prot No :</b>	Q03145
<b>Immunogen :</b>	Purified recombinant fragment of EphA2 expressed in E. Coli.
<b>Specificity :</b>	EphA2 Monoclonal Antibody detects endogenous levels of EphA2 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. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
<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>	108kD

**Cell Pathway :** Axon guidance;

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**P References :**

1. Shaji Abraham, Deborah W. Knapp, Liang Cheng. Clin Cancer Res. 2006 Jan 15;12(2):353-60.
2. Charles N Landen, Michael S Kinch, Anil K Sood. Expert Opin Ther Targets. 2005 Dec;9(6):1179-87.

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**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],

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**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.,

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**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). .

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**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.

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**Tag :** hot

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**Sort :** 5616

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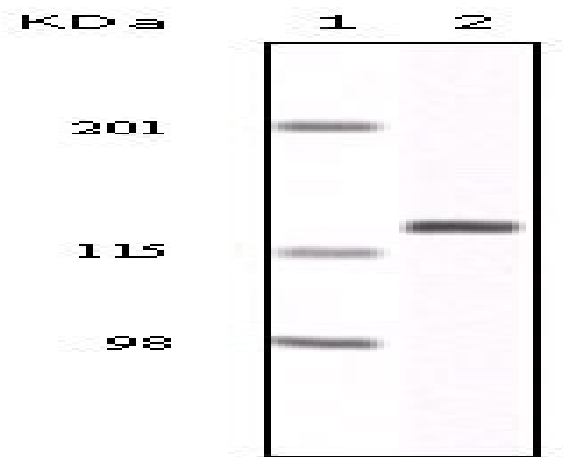
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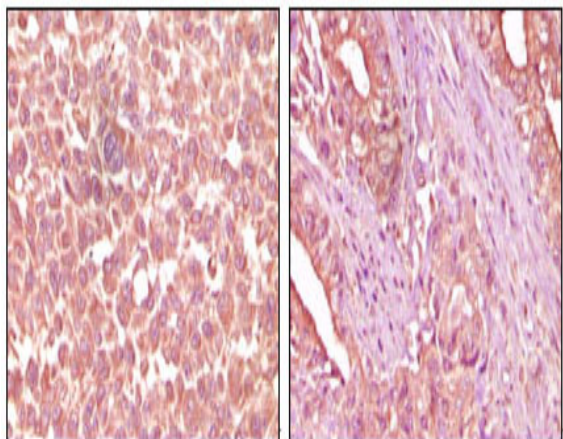
**Host :** Mouse

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## Products Images



Western Blot analysis using EphA2 Monoclonal Antibody against NIH/3T3 cell lysate.



Immunohistochemistry analysis of paraffin-embedded human skin carcinoma (left) and pancreas carcinoma (right) tissue, showing cytoplasmic localization with DAB staining using EphA2 Monoclonal Antibody.