

**EPHA2/3/4 Antibody (Ab-588/596)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50010****Specification**

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**EPHA2/3/4 Antibody (Ab-588/596) - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P29317</a>
Other Accession	<a href="#">P29320</a> , <a href="#">P54764</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108 KDa
Antigen Region	323-353

**EPHA2/3/4 Antibody (Ab-588/596) - Additional Information****Gene ID** 1969**Other Names**

Ephrin type-A receptor 2, Epithelial cell kinase, Tyrosine-protein kinase receptor ECK, EPHA2, ECK

**Dilution**

WB~~ 1:1000

IF~~1:100

**Format**Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

**EPHA2/3/4 Antibody (Ab-588/596) - Protein Information****Name** EPHA2**Synonyms** ECK**Function**

Receptor tyrosine kinase which binds promiscuously membrane- bound ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Activated by the ligand ephrin- A1/EFNA1 regulates migration, integrin-mediated adhesion, proliferation and differentiation of cells. Regulates cell adhesion and differentiation through DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 (MAPK3/MAPK1, respectively) signaling pathway. May also participate in UV radiation-induced apoptosis and have a ligand- independent

stimulatory effect on chemotactic cell migration. During development, may function in distinctive aspects of pattern formation and subsequently in development of several fetal tissues. Involved for instance in angiogenesis, in early hindbrain development and epithelial proliferation and branching morphogenesis during mammary gland development. Engaged by the ligand ephrin-A5/EFNA5 may regulate lens fiber cells shape and interactions and be important for lens transparency development and maintenance. With ephrin-A2/EFNA2 may play a role in bone remodeling through regulation of osteoclastogenesis and osteoblastogenesis.

#### **Cellular 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. Note=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).

#### **Tissue Location**

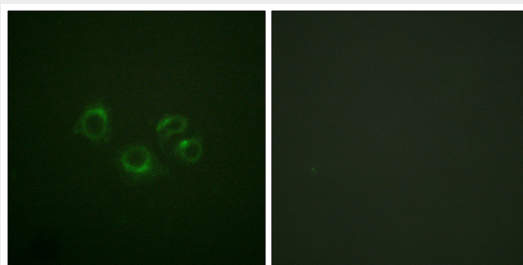
Expressed in brain and glioma tissue and glioma cell lines (at protein level). Expressed most highly in tissues that contain a high proportion of epithelial cells, e.g. skin, intestine, lung, and ovary.

#### **EPHA2/3/4 Antibody (Ab-588/596) - Protocols**

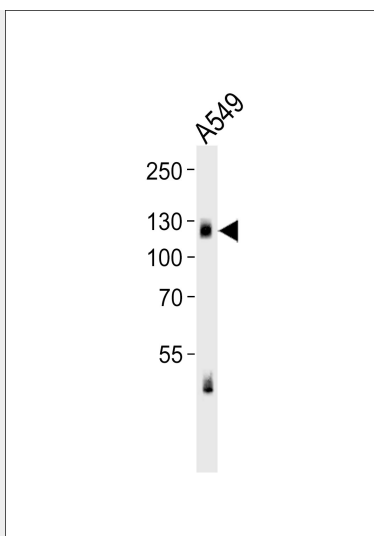
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

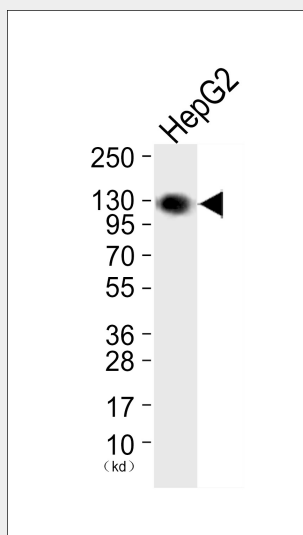
#### **EPHA2/3/4 Antibody (Ab-588/596) - Images**



Immunofluorescence analysis of A549 cells, using EPHA2/3/4 (Ab-588/596) antibody.



Western blot analysis of lysate from A549 cell line, using EPHA2/3/4 Antibody (Ab-588/596) (B0914). B0914 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Western blot analysis of extracts from HepG2 cells, using EPHA2/3/4 (Ab-588/596) Antibody. The lane on the left is treated with synthesized peptide.

#### **EPHA2/3/4 Antibody (Ab-588/596) - Background**

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#### **EPHA2/3/4 Antibody (Ab-588/596) - References**

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Gregory S.G.,et al.Nature 441:315-321(2006).

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Zelinski D.P.,et al.Cancer Res. 61:2301-2306(2001).