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EPHA2/3/4 Antibody (Ab-588/596)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50010

Specification

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

Application	**IF, WB**
Primary Accession	P29317
Other Accession	P29320, P54764
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
IF~~1:100
WB~~ 1:1000

Format
Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

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).

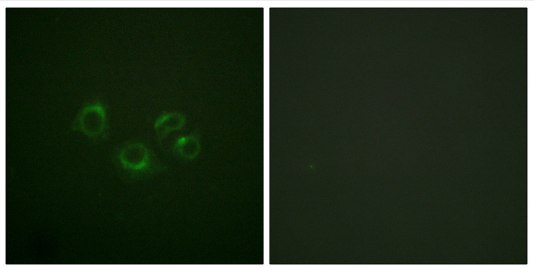
Tissue Location
Expressed in brain and glioma tissue and glioma cell lines (at protein level). Expressed most highly in tissues that contain a high proportion of epithelial cells, e.g. skin, intestine, lung, and ovary.

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

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

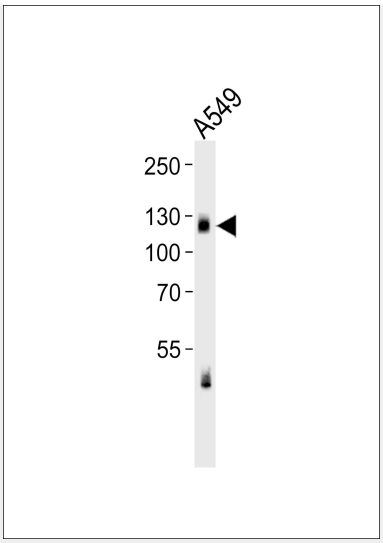
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

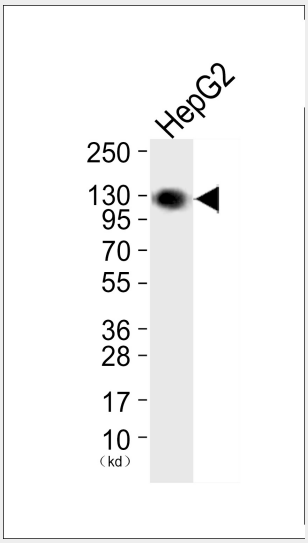


Immunofluorescence analysis of A549 cells, using EPHA2/3/4 (Ab-588/596) antibody.

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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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