## Product Name: Phospho-EPHA4 (Tyr596) Rabbit

Polyclonal Antibody Catalog #: APRab00927



### **Summary**

Production Name Phospho-EPHA4 (Tyr596) Rabbit Polyclonal Antibody

**Description** Primary antibody

Host Rabbit
Application WB
Reactivity Human

### **Performance**

ConjugationUnconjugatedModificationPhosphorylated

**Isotype** IgG

**Clonality** Polyclonal Antibody

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw  $\bf Storage$ 

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

**Purification** Affinity Purified

### **Immunogen**

Gene Name EPHA4

Alternative Names HEK8; SEK; TYRO1; Ephrin type-A receptor 4

 Gene ID
 2043

 SwissProt ID
 P54764

## **Application**

**Dilution Ratio** WB: 1/500-1/1000

Molecular Weight Calculated MW: 110 kDa; Observed MW: 110 kDa

## **Background**

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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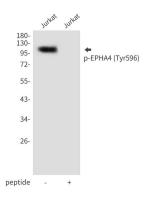


Receptor tyrosine kinase which binds membrane-bound ephrin family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Highly promiscuous, it has the unique property among Eph receptors to bind and to be physiologically activated by both GPI-anchored ephrin-A and transmembrane ephrin-B ligands including EFNA1 and EFNB3. Upon activation by ephrin ligands, modulates cell morphology and integrin-dependent cell adhesion through regulation of the Rac, Rap and Rho GTPases activity. Plays an important role in the development of the nervous system controlling different steps of axonal guidance including the establishment of the corticospinal projections. May also control the segregation of motor and sensory axons during neuromuscular circuit development. In addition to its role in axonal guidance plays a role in synaptic plasticity. Activated by EFNA1 phosphorylates CDK5 at 'Tyr-15' which in turn phosphorylates NGEF regulating RHOA and dendritic spine morphogenesis. In the nervous system, plays also a role in repair after injury preventing axonal regeneration and in angiogenesis playing a role in central nervous system vascular formation. Additionally, its promiscuity makes it available to participate in a variety of cell-cell signaling regulating for instance the development of the thymic epithelium. During development of the cochlear organ of Corti, regulates pillar cell separation by forming a ternary complex with ADAM10 and CADH1 which facilitates the cleavage of CADH1 by ADAM10 and disruption of adherens junctions (By similarity).

#### **Research Area**

Signal Transduction

#### **Image Data**



Western blot analysis of Phospho-EPHA4 (Tyr596) in Jurkat lysates using Phospho-EPHA4 (Tyr596) antibody.

#### Note

For research use only.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838