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# Rabbit Anti-EPHB4 antibody

SL6046R

| | |
|---|---|
| **Product Name** | EPHB4 |
| **Chinese Name** | 酪氨酸蛋白激酶受体 B4 抗体 |
| **Alias** | Eph receptor B4; EPHB4_HUMAN; Ephrin type-B receptor 4; Hepatoma Transmembrane Kinase; HTK; MYK1; TYRO11; Tyrosine-protein kinase receptor HTK; Tyrosine-protein kinase TYRO11. |
| **Research Area** | Cardiovascular Cell biology Neurobiology Signal transduction Stem cells The cell membrane 受体 |
| **Immunogen Species** | Rabbit |
| **Clonality** | Polyclonal |
| **React Species** | Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,GuineaPig) |
| **Applications** | WB=1:500-2000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Theoretical molecular weight** | 107kDa |
| **Cellular localization** | The cell membrane |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **immunogen** | KLH conjugated synthetic peptide derived from human Eph receptor B4: 601-700/987 |
| **Lsotype** | IgG |
| **Purification** | affinity purified by Protein A |
| **Buffer Solution** | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| **Storage** | Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Attention** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **PubMed** | PubMed |
| **Product Detail** | Ephrin receptors and their ligands, the ephrins, mediate numerous |

developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of 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. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq, Jul 2008]

**Function:**
Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B 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. Together with its cognate ligand/functional ligand EFNB2 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation form EFNB2-expressing cells. Plays also a role in postnatal blood vessel remodeling, morphogenesis and permeability and is thus important in the context of tumor angiogenesis.

**Subunit:**
Heterotetramer upon binding of the ligand. The heterotetramer is composed of an ephrin dimer and a receptor dimer. Oligomerization is probably required to induce biological responses.

**Subcellular Location:**
Cell membrane; Single-pass type I membrane protein.

**Tissue Specificity:**
Abundantly expressed in placenta and in a range of primary tissues and malignant cell lines. Expressed in fetal, but not adult, brain, and in primitive and myeloid, but not lymphoid, hematopoietic cells.

**Post-translational modifications:**
Phosphorylated; autophosphorylation is stimulated by EFNB2.

**Similarity:**
Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.
Contains 2 fibronectin type-III domains.

Contains 1 protein kinase domain.
Contains 1 SAM (sterile alpha motif) domain.

**SWISS:**
P54760

**Gene ID:**
2050

**Database links:**

Entrez Gene: 2050 Human

Entrez Gene: 13846 Mouse

Omim: 600011 Human

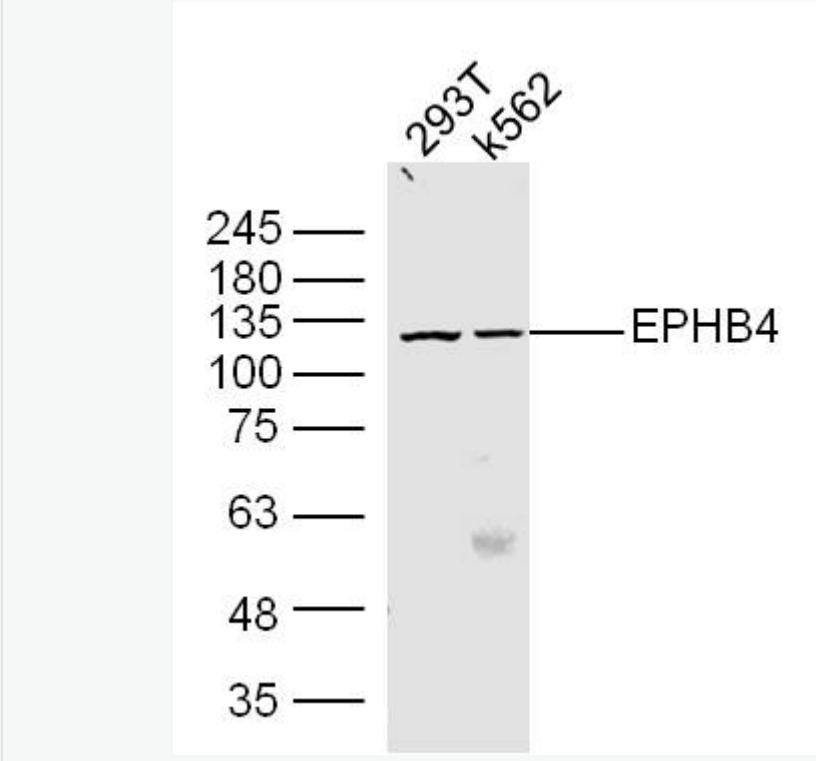
SwissProt: P54760 Human

SwissProt: P54761 Mouse

Unigene: 437008 Human

Unigene: 34533 Mouse

**Product Picture**



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Sample:

293T Cell (Human) Lysate at 40 ug

K562 Cell (Human) Lysate at 40 ug

Primary: Anti-EPHB4 (SL6046R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 107 kD

Observed band size: 120 kD