

## Product datasheet for **AP20388PU-S**

### Eph receptor B4 (EPHB4) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 580-630 of Human EphB4.
Specificity:	This antibody detects endogenous levels of EphB4 protein surrounding E601.
Formulation:	PBS, pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~108 kDa
Gene Name:	EPH receptor B4
Database Link:	<a href="#">Entrez Gene 13846 Mouse</a> <a href="#">Entrez Gene 2050 Human</a> <a href="#">P54760</a>



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**Background:**

EphB4, also known as Htk, Myk1, Tyro11, and Mdk2, is a member of the Eph receptor family, which binds of the ephrin ligand family. Two classes of receptors exist, designated A and B, that have an extracellular domain made up of a globular domain, a cysteine-rich domain, and two fibronectin type III domains, followed by the transmembrane region and cytoplasmic region. The cytoplasmic region contains juxtamembrane motif with two tyrosines, which are the major autophosphorylation sites, along with a kinase domain, and a conserved sterile alpha motif (SAM) in the carboxyl terminus, which includes one conserved tyrosine. Ligand recognition and binding leads to activation of intrinsic kinase activity. Only membrane-bound or Fc-clustered ligands have been shown to activate the receptor in vitro. Soluble monomeric ligands can bind the receptor, but do not induce receptor autophosphorylation and activation. The Eph receptors and ephrin ligands display reciprocal expression in vivo. Developing and adult neural tissue express nearly all of the Eph receptors and ephrin ligands. Ephs and ephrins play a significant role in angiogenesis.

**Synonyms:**

Ephrin type-B receptor 4, HTK, TYRO11

**Protein Families:**

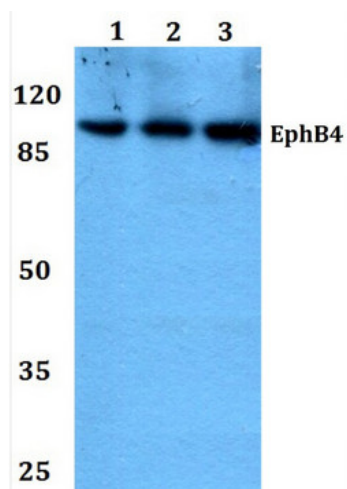
Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:**

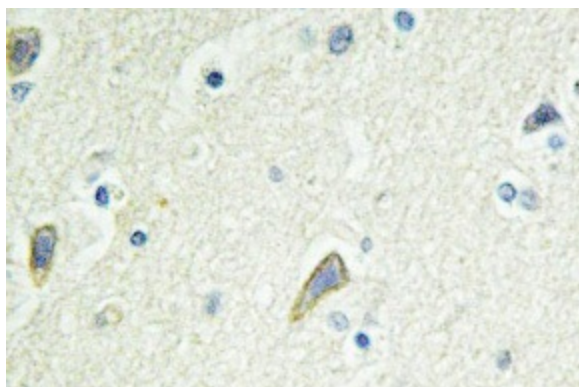
Axon guidance

**Product images:**

Western blot analysis of EphB4 Antibody at 1/500 dilution: Lane 1: Hela whole cell lysate. Lane 2: sp2/0 whole cell lysate. Lane 3: H9C2 whole cell lysate.



Western blot analysis of EphB4 Antibody in extracts from Jurkat cells.



Immunohistochemistry analysis of EphB4 Antibody in paraffin-embedded human brain tissue.