

**EPHB4 (aa 566 - 578) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2648a****Specification**

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**EPHB4 (aa 566 - 578) Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">P54760</a>
Other Accession	<a href="#">NP_004435.3</a> , <a href="#">2050</a>
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	108270

**EPHB4 (aa 566 - 578) Antibody (internal region) - Additional Information****Gene ID** 2050**Other Names**

Ephrin type-B receptor 4, 2.7.10.1, Hepatoma transmembrane kinase, Tyrosine-protein kinase TYRO11, EPHB4, HTK, MYK1, TYRO11

**Dilution**

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

EPHB4 (aa 566 - 578) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**EPHB4 (aa 566 - 578) Antibody (internal region) - Protein Information****Name** EPHB4**Synonyms** HTK, MYK1, TYRO11**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 it is involved in the regulation of cell adhesion and migration, and plays a central role in heart morphogenesis, angiogenesis and blood vessel remodeling and permeability. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Abundantly expressed in placenta but also detected in kidney, liver, lung, pancreas, skeletal muscle and heart. Expressed in primitive and myeloid, but not lymphoid, hematopoietic cells. Also observed in cell lines derived from liver, breast, colon, lung, melanocyte and cervix.

**EPHB4 (aa 566 - 578) Antibody (internal region) - 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](#)

**EPHB4 (aa 566 - 578) Antibody (internal region) - Images****EPHB4 (aa 566 - 578) Antibody (internal region) - References**

The receptor tyrosine kinase EphB4 is overexpressed in ovarian cancer, provides survival signals and predicts poor outcome. Kumar SR, Masood R, Spannuth WA, Singh J, Scehnet J, Kleiber G, Jennings N, Deavers M, Krasnoperov V, Dubeau L, Weaver FA, Sood AK, Gill PS. Br J Cancer. 2007 Apr 10;96(7):1083-91. Epub 2007 Mar 13. PMID: 17353927