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EPHB4 (aa 566 - 578) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF2648a

Specification

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

Application	**E**
Primary Accession	P54760
Other Accession	NP_004435.3, 2050
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

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 Cytomety
- 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