10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Ephrin Receptor B4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2299

Specification

KD-Validated Anti-Ephrin Receptor B4 Rabbit Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	P54760
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted , 108 kDa , observed , 135 kDa KDa**
Gene Name	**EPHB4**
Aliases	**EPH Receptor B4; Ephrin Receptor EphB4; HTK; Ephrin Type-B Receptor; MYK1; Soluble EPHB4 Variant 1; Hepatoma Transmembrane Kinase; Soluble EPHB4 Variant 2; Tyrosine-Protein Kinase TYRO11; Soluble EPHB4 Variant 3; TYRO11; Tyrosine-Protein Kinase Receptor HTK; EC 2.7.10.1; EC 2.7.10; EphB4**
Immunogen	**A synthesized peptide derived from human Eph receptor B4/HTK**

KD-Validated Anti-Ephrin Receptor B4 Rabbit Monoclonal Antibody - 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

KD-Validated Anti-Ephrin Receptor B4 Rabbit Monoclonal Antibody - 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

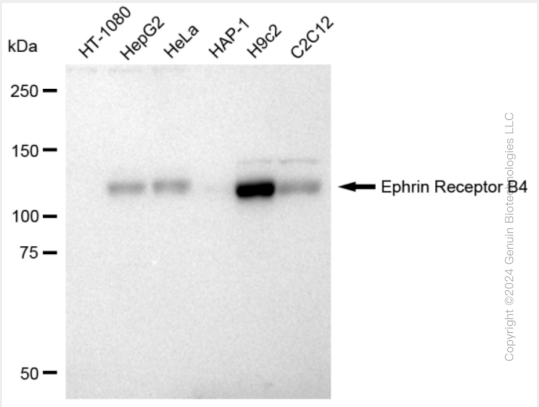
Tissue Location
Abundantly expressed in placenta but also detected in kidney, liver, lung, pancreas, skeletal muscle and heart. Expressed in primitive and myeloid, but not lymphoid, hematopoietic cells. Also observed in cell lines derived from liver, breast, colon, lung, melanocyte and cervix.

KD-Validated Anti-Ephrin Receptor B4 Rabbit Monoclonal Antibody - Protocols

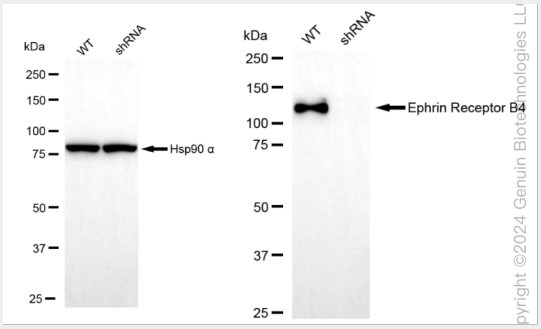
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Ephrin Receptor B4 Rabbit Monoclonal Antibody - Images



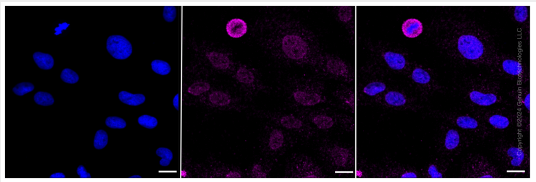
Western blotting analysis using anti-Ephrin Receptor B4 antibody (Cat#AGI2299). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Ephrin Receptor B4 antibody (Cat#AGI2299, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Ephrin Receptor B4 antibody (Cat#AGI2299). Ephrin Receptor B4 expression in wild type (WT) and Ephrin Receptor B4 shRNA knockdown (KD) HeLa

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Ephrin Receptor B4 antibody (Cat#AGI2299, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Immunocytochemical staining of HepG2 cells with Ephrin Receptor B4 antibody (Cat#AGI2299, 1:1,000). Nuclei were stained blue with DAPI; Ephrin Receptor B4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.