

KD-Validated Anti-Ephrin Receptor B4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2299

Product Information

Application	WB, ICC
Primary Accession	P54760
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB1045
Calculated MW	108270
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

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

Protein Information

Name	EPHB4
Synonyms	HTK, MYK1, TYRO11
Function	Receptor tyrosine kinase which binds promiscuously to 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. Phosphorylates inactive tyrosine-protein kinase EPHB6 which promotes interaction of EPHB6 with SH2 domains, allowing it to recruit SH2 domain-containing signaling adapters (PubMed: 34431498).

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.

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