
Product Name: KD-Validated Ephrin Receptor B4 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00266

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 108.3kDa

Antigen Information

Gene Name	EPHB4
Alternative Names	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
Gene ID	2050.0
SwissProt ID	P54760
Immunogen	Recombinant protein of human Eph receptor B4/HTK

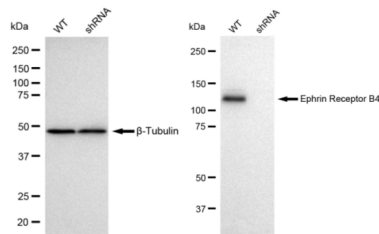
Background

Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene binds to ephrin-B2 and plays an essential role in vascular development. [provided by RefSeq, Jul 2008]

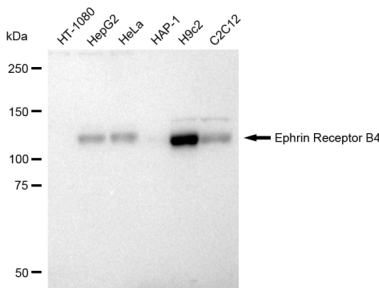
Research Area

Cardiovascular, Neuroscience, Stem Cells

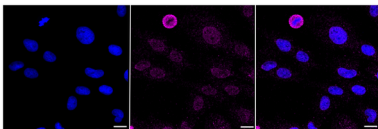
Image Data



Western blotting analysis using Ephrin Receptor B4 antibody (KVA00266). Ephrin Receptor B4 expression in wild type (WT) and Ephrin Receptor B4 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Ephrin Receptor B4 antibody (KVA00266, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Ephrin Receptor B4 antibody (KVA00266). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Ephrin Receptor B4 antibody (KVA00266, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Ephrin Receptor B4 antibody (KVA00266, 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.