

Product Name: KD-Validated Eph Receptor B1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01091

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
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; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 109.9kDa

Antigen Information

Gene Name	EPHB1 EPHB1; EPH Receptor B1; EPHT2; HEK6; Neuronally-Expressed EPH-Related Tyrosine Kinase;
Alternative Names	Tyrosine-Protein Kinase Receptor EPH-2; Ephrin Type-B Receptor 1; EPH-Like Kinase 6; EC 2.7.10.1; Hek6; ELK; NET; EK6; Eph Tyrosine Kinase 2; EPH Tyrosine Kinase 2; EC 2.7.10; EphB1
Gene ID	2047.0
SwissProt ID	P54762
Immunogen	A synthesized peptide derived from human Eph receptor B1

Background

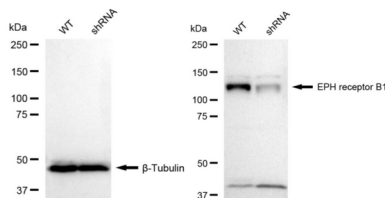
Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are

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 is a receptor for ephrin-B family members. [provided by RefSeq, Jul 2008]

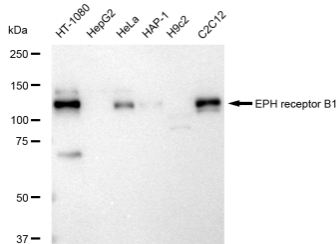
Research Area

Cardiovascular, Neuroscience, Signal Transduction

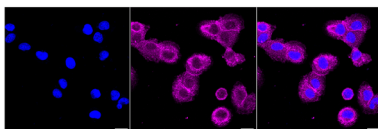
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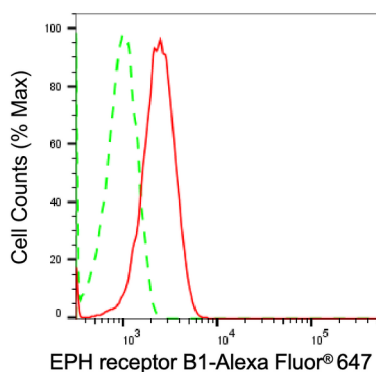
Western blotting analysis using eph receptor B1 antibody (KVA01091). Eph receptor B1 expression in wild type (WT) and eph receptor B1 (EPHB1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with eph receptor B1 antibody (KVA01091, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using EPH receptor B1 antibody (KVA01091). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with EPH receptor B1 antibody (KVA01091, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with eph receptor B1 antibody (KVA01091, 1:1,000). Nuclei were stained blue with DAPI; EPH receptor B1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of EPH receptor B1 expression in HT-1080 cells using EPH receptor B1 antibody (KVA01091, 1:2,000). Green, isotype control; red, EPH receptor B1.