

Rabbit Eph receptor B2/EPHB2 Polyclonal Antibody | anti-EPHB2 antibody

Anti-Eph receptor B2/EPHB2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125428	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

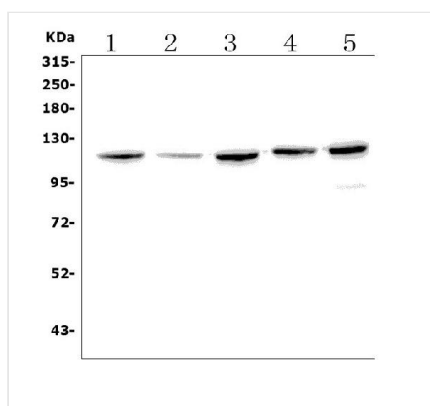
PRODUCT SYNONYMS

Eph receptor B2/EPHB2; Polyclonal Antibody; Anti-Eph receptor B2/EPHB2 Antibody; Ephrin type-B receptor 2; Developmentally-regulated Eph-related tyrosine kinase; ELK-related tyrosine kinase; EPH tyrosine kinase 3; EPH-like kinase 5; EK5; Hek5; Renal carcinoma antigen NY-REN-47; Tyrosine-protein kinase TYRO5; Tyrosine-protein kinase receptor EPH-3; EPHB2; DRT; EPHT3; EPTH3; ERK; HEK5; TYRO5; anti-EPHB2 antibody

PRODUCT SPECIFICATIONS

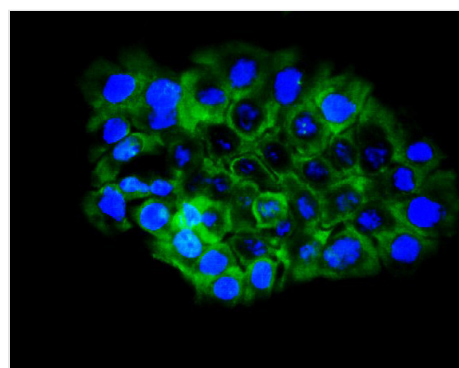
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	987
Applicable Applications for anti-EPHB2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Eph receptor B2/EPHB2 recombinant protein (Position: K278-K540).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

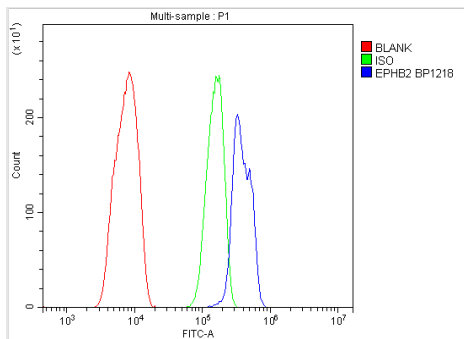


WB (Western Blot)

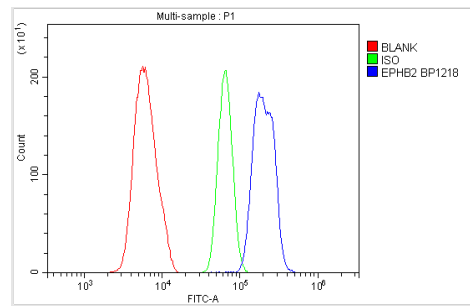
Figure 1. Western blot analysis of EPHB2 using anti-EPHB2 antibody.



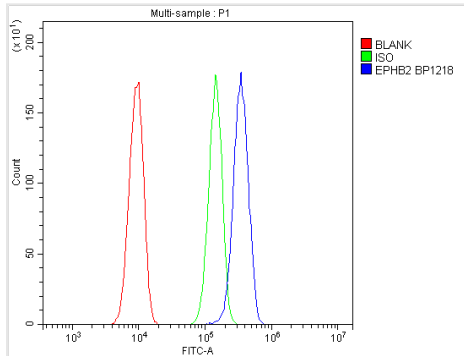
IF (Immunofluorescence)



FCM/FACS (Flow Cytometry)



FCM/FACS (Flow Cytometry)



FCM/FACS (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-EPHB2 antibody

Description: Rabbit IgG polyclonal antibody for Eph receptor B2/EPHB2 detection. Tested with WB, ICC/IF, FCM, Direct ELISA in Human; Mouse; Rat.

Background: Ephrin type-B receptor 2 is a protein that in humans is encoded by the EPHB2 gene. This gene is mapped to 1p36.12. This gene encodes a member of the Eph receptor family of receptor tyrosine kinase transmembrane glycoproteins. These receptors are composed of an N-terminal glycosylated ligand-binding domain, a transmembrane region and an intracellular kinase domain. They bind ligands called ephrins and are involved in diverse cellular processes including motility, division, and differentiation. A distinguishing characteristic of Eph-ephrin signaling is that both receptors and ligands are competent to transduce a signaling cascade, resulting in bidirectional signaling. This protein belongs to a subgroup of the Eph receptors called EphB. Proteins of this subgroup are distinguished from other members of the family by sequence homology and preferential binding affinity for membrane-bound ephrin-B ligands. Allelic variants are associated with prostate and brain cancer susceptibility. Alternative splicing results in multiple transcript variants.

References

1. Attwood, B. K., Bourgognon, J.-M., Patel, S., Mucha, M., Schiavon, E., Skrzypiec, A. E., Young, K. W., Shiosaka, S., Korostynski, M., Piechota, M., Przewlocki, R., Pawlak, R. Neuropsin cleaves EphB2 in the amygdala to control anxiety. *Nature* 473: 372-375, 2011.
2. Berrou, E., Soukaseum, C., Favier, R., Adam, F., Elaib, Z., Kauskot, A., Bordet, J.-C., Ballerini, P., Loyau, S., Feng, M., Dias, K., Muheidli, A., and 9 others. A mutation of the human EPHB2 gene leads to a major platelet functional defect. *Blood* 132: 2067-2077, 2018.
3. Cisse, M., Halabisky, B., Harris, J., Devidze, N., Dubal, D. B., Sun, B., Orr, A., Lotz, G., Kim, D. H., Hamto, P., Ho, K., Yu, G.-Q., Mucke, L. Reversing EphB2 depletion rescues cognitive functions in Alzheimer model. *Nature* 469: 47-52, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21396504
NCBI GeneID	2048
NCBI Accession #	NP_004433.2
NCBI GenBank Nucleotide #	NP_004433.2

UniProt Accession #	P29323
NCBI Official Full Name	ephrin type-B receptor 2 isoform 2
NCBI Official Synonym Full Names	EPH receptor B2
NCBI Official Symbol	EPHB2
NCBI Official Synonym Symbols	DRT; EK5; ERK; CAPB; Hek5; PCBC; EPHT3; Tyro5; BDPLT22
NCBI Protein Information	ephrin type-B receptor 2
UniProt Protein Name	Ephrin type-B receptor 2
UniProt Gene Name	EPHB2
UniProt Synonym Gene Names	DRT; EPHT3; EPTH3; ERK; HEK5; TYRO5; EK5; hEK5
UniProt Entry Name	EPHB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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