

Mouse anti-Human EphB4 Monoclonal Antibody | anti-EphB4 antibody

Anti-EphB4 Antibody, Mouse Monoclonal

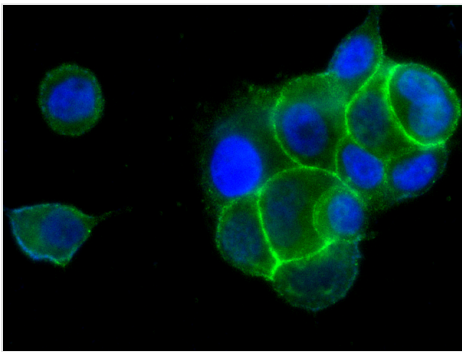
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254747	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

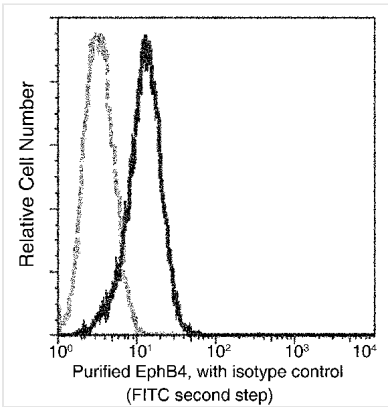
EphB4; Monoclonal Antibody; Anti-EphB4 Antibody; Mouse Monoclonal; EphB4/HTK Antibody; Mouse MAb; EPH receptor B4; Anti-HTK Antibody; Anti-MYK1 Antibody; Anti-TYRO11 Antibody; anti-EphB4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	04
Specificity	Human EphB4/HTK
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-EphB4 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	Recombinant Human EphB4 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human EphB4/HTK extracellular domain (rhEphB4). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IF (Immunofluorescence)
Immunofluorescence staining of EphB4 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human EphB4 monoclonal antibody (1:30) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody(green) and counterstained with DAPI(blue).



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of human EphB4 expression on MCF-7 cells. Cells were stained with purified anti-Human EphB4, then a FITC-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-EphB4 antibody	Ephrin type-B receptor 4 is a protein that in humans is encoded by the EPHB4 gene. It is a single-pass type I membrane protein belonging to the ephrin receptor subfamily of protein kinase superfamily. Members of the ephrin and Eph family are local mediators of cell function through largely contact-dependent processes in development and in maturity. Furthermore, EphB4 protein and the corresponding ligand Ephrin-B2 contribute to tumor growth in various human tumors. EphB4 protein has tumor suppressor activities and that regulation of cell proliferation, extracellular matrix remodeling, and invasive potential are important mechanisms of tumor suppression. Therefore, Ephrin-B2/EphB4 may be recognized as a novel prognostic indicator for cancers.
Product Categories/Family for anti-EphB4 antibody	Actin Dynamics Signaling Pathway
References	Davalos V, et al. (2006) EPHB4 and survival of colorectal cancer patients. Cancer Res. 66(18): 8943-8.Zhao C, et al. (2006) Bidirectional ephrinB2-EphB4 signaling controls bone homeostasis. Cell Metab. 4(2): 111-21.Kertesz N, et al. (2006) The soluble extracellular domain of EphB4 (sEphB4) antagonizes EphB4-EphrinB2 interaction, modulates angiogenesis, and inhibits tumor growth. Blood. 107(6): 2330-8.Noren NK, et al. (2007) Paradoxes of the EphB4 receptor in cancer. Cancer Res. 67(9): 3994-7.Taylor AC, et al. (2007) EphB4 expression along adult rat microvascular networks: EphB4 is more than a venous specific marker. Microcirculation. 14(3): 253-67.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32528301
NCBI GeneID	2050
NCBI Accession #	NP_004435.3
NCBI GenBank Nucleotide #	NM_004444.4
UniProt Accession #	P54760; Q9BTA5; Q9BXP0
Molecular Weight	108,270 Da
NCBI Official Full Name	ephrin type-B receptor 4
NCBI Official Synonym Full Names	EPH receptor B4
NCBI Official Symbol	EPHB4
NCBI Official Synonym Symbols	HTK; MYK1; TYRO11
NCBI Protein Information	ephrin type-B receptor 4; ephrin receptor EphB4; soluble EPHB4 variant 1; soluble EPHB4 variant 2; soluble EPHB4 variant 3; hepatoma transmembrane kinase; tyrosine-protein kinase TYRO11; tyrosine-protein kinase receptor HTK

UniProt Protein Name	Ephrin type-B receptor 4
UniProt Gene Name	EPHB4
UniProt Synonym Gene Names	HTK; MYK1; TYRO11
UniProt Entry Name	EPHB4_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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ephb4-antibody-clone-04-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/254747>