EPHB1 monoclonal antibody

Catalog: MB66630 Host: Mouse Reactivity: Human

BackGround:

The Eph receptors are the largest known family of receptor tyrosine kinases (RTKs). They can be divided into two groups based on sequence similarity and on their preference for a subset of ligands: EphA receptors bind to a glycosylphosphatidylinositol-anchored ephrin A ligand; EphB receptors bind to ephrin B proteins that have a transmembrane and cytoplasmic domain. Research studies have shown that Eph receptors and ligands may be involved in many diseases including cancer. Both ephrin A and B ligands have dual functions. As RTK ligands, ephrins stimulate the kinase activity of Eph receptors and activate signaling pathways in receptor-expressing cells. The ephrin extracellular domain is sufficient for this function as long as it is clustered. The second function of ephrins has been described as "reverse signaling", whereby the cytoplasmic domain becomes tyrosine phosphorylated, allowing interactions with other proteins that may activate signaling pathways in the ligand-expressing cells. Various stimuli can induce tyrosine phosphorylation of ephrin B, including binding to EphB receptors, activation of Src kinase, and stimulation by PDGF and FGF. Tyr324 and Tyr327 have been identified as major phosphorylation sites of ephrin B1 in vivo. EphB1 is a member of the Eph family of receptor tyrosine kinases that plays an important role in diverse biological processes including nervous system development, angiogenesis, and neural synapsis formation and maturation. Over- or underexpression of certain Eph receptors has been found in some cancer tissues. EphB1 has been shown to be involved in the tumorigenesis of colorectal cancer.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 110 kDa

Swiss-Prot:

P54762

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100)

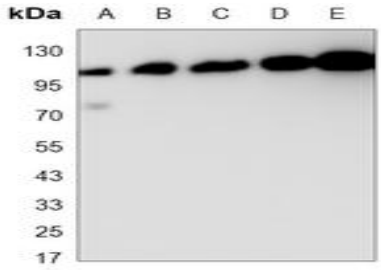
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

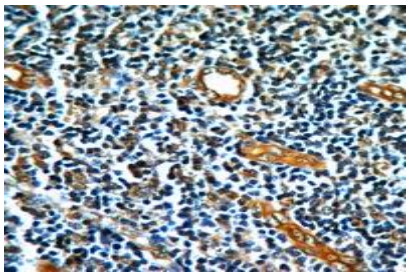
Specificity:

Recognizes endogenous levels of EPHB1 protein.

DATA:



Western blot analysis of EPHB1 expression in MDAMB468 (A), MDAMB453 (B), MCF7 (C), T47D (D), SKBR3 (E) whole cell lysates.



Immunohistochemical analysis of EPHB1 staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.138). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then

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counterstained with haematoxylin and mounted with DPX.

For research use only, not for use in diagnostic procedure.

Note:

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