

EPHA5 monoclonal antibody

Catalog: MB67025 Host:

Mouse

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. While 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 .The EphA3 receptor preferentially binds ephrin-A5. This ligand-receptor interaction stimulates EphA3 signaling, regulates cell adhesion and migration, and induces cellular morphologic responses . EphA3 plays a critical role in callosal axon guidance, retinotectal mapping of neurons, as well as cardiac cell migration and differentiation . Investigators have shown that somatic mutations in functional domains of EphA3 are linked to lung cancer progression . In addition, EphA3 expression levels have been correlated with tumor angiogenesis and progression in gastric and colorectal carcinoma.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 115 kDa

Swiss-Prot:

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P54756

Purification&Purity:

Reactivity:

This antibody is purified through a protein G column.

Human

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

Storage&Stability:

Store at 4 $^{\circ}$ C short term. Aliquot and store at -20 $^{\circ}$ C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of EPHA5 protein.

DATA:



Western blot analysis of EPHA5 expression in EPHA5 recombinant protein (A) whole cell lysates.



Immunohistochemical analysis of EPHA5 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). 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 counterstained with haematoxylin and mounted with DPX.

Note:

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

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