# EPHB2 monoclonal antibody

Catalog: MB66958 Host: Mouse Reactivity: Human

## BackGround:

The ephrin receptor B2 (EphB2) is an ephrin family receptor tyrosine kinase that plays an important role in regulating growth and development of multiple tissues and organs . The EphB2 transmembrane receptor protein contains a kinase domain, a PDZ motif, and a SAM domain within a conserved cytoplasmic domain. A ligand binding domain, a cysteine-rich domain, and fibronectin type III repeats comprise the conserved EphB2 extracellular domain . EphB2 binds with high affinity to ephrin B ligands, and to some ephrin A proteins, to initiate bidirectional signaling between neighboring cells . Upon binding, EphB2-Ephrin B2 dimers form a heterotetramer and position the receptor-ligand complex on the cell membrane to facilitate bidirectional signal transduction . In addition to associating with ephrin ligands, EphB2 also regulates a number of biological processes through interaction with focal adhesion kinase (FAK), NMDA receptor (NMDAR), the Rac1 guanine nucleotide exchange factor Tiam1, and p21-activated kinase (PAK1) . While some studies support a role for EphB2 as a pro-oncogenic kinase, other research suggests that EphB2 acts as a tumor suppressor .

## Product:

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

## Molecular Weight:

~ 130 kDa

## Swiss-Prot:

P29323

## Purification&Purity:

This antibody is purified through a protein G column.

## Applications:

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

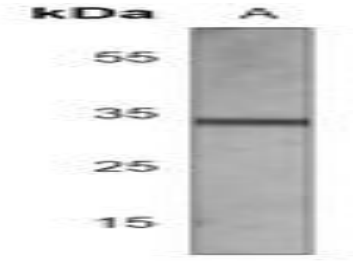
## Storage&Stability:

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

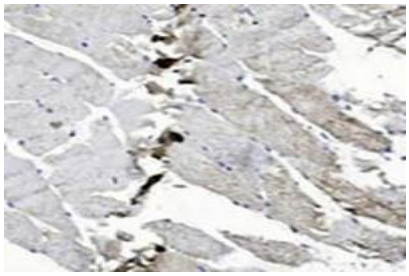
## Specificity:

Recognizes endogenous levels of EPHB2 protein.

## DATA:




Western blot analysis of EPHB2 expression in EPHB2 protein (A) whole cell lysates.



Immunohistochemical analysis of EPHB2 staining in human Skeletal muscle 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.

**Bioworld Technology, Inc.**
Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416,USA.
Email: info@bioworlde.com
Tel: 6123263284
Fax: 6122933841

**Bioworld technology, co. Ltd.**
Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.
Email: info@biogot.com
Tel: 0086-025-68037686
Fax: 0086-025-68035151