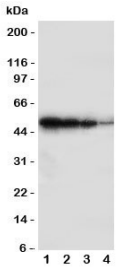
# BMPR1B Antibody (R31125)

| Catalog No. | Formulation | Size |
|---|---|---|
| R31125 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | O00238 |
| **Applications** | Western blot: 0.5-1ug/ml |
| **Limitations** | This BMPR1B antibody is available for research use only. |




Western blot testing of BMPR1B antbody; Lane 1: Recombinant human protein 10ng; 2: 5ng; 3: 2.5ng; 4: 1.25ng

## Description

Bone Morphogenetic Protein Receptor Type IB, also known as ALK6, is a protein which in humans is encoded by the BMPR1B gene. It is a member of the bone morphogenetic protein(BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of two different types of serine(threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II

receptors for ligand binding. By analysis of a monochromosome hybrid mapping panel and by FISH, Astrom et al.(1999) mapped the BMPR1B gene to chromosome 4q22-q24. Ide et al.(1997) compared BMP receptor expression in normal and cancerous prostate tissues. While BMPR1A and BMPR2 were expressed at similar levels in all prostate tissues, BMPR1B was expressed at a significantly reduced level in cancerous prostate tissue.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the BMPR1B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the middle region of human Bone Morphogenetic Protein Receptor Type IB (FCYFRYKRQETRPRYS) was used as the immunogen for this BMPR1B antibody.

## Storage

After reconstitution, the BMPR1B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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