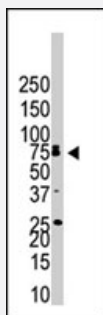


BMPR1B polyclonal antibody

Catalog # PAB3839

Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of BMPR1B polyclonal antibody (Cat # PAB3839) in NCI-H460 cell lysate (Lane A) and mouse heart tissue lysate (Lane B). BMPR1B (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of BMPR1B.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 472-502 of human BMPR1 B.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA Immunohistochemistry (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of BMPR1B polyclonal antibody (Cat # PAB3839) in NCI-H460 cell lysate (Lane A) and mouse heart tissue lysate (Lane B). BMPR1B (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — BMPR1B

Entrez GeneID [658](#)

Protein Accession# [NP_001194](#)

Gene Name BMPR1B

Gene Alias ALK-6, ALK6, CDw293

Gene Description bone morphogenetic protein receptor, type IB

Omim ID [112600 603248](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes 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 2 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. Mutations in this gene have been associated with primary pulmonary hypertension. [provided by RefSeq]

Other Designations OTTHUMP00000161622|activin receptor-like kinase 6|serine/threonine receptor kinase

Publication Reference

- [Mutations in bone morphogenetic protein receptor 1B cause brachydactyly type A2.](#)

Lehmann K, Seemann P, Stricker S, Sammar M, Meyer B, Suring K, Majewski F, Tinschert S, Grzeschik KH, Muller D, Knaus P, Nurnberg P, Mundlos S.

PNAS 2003 Oct; 100(21):12277.

- [Chromosomal localization of three human genes encoding bone morphogenetic protein receptors.](#)

A K Astrom, D Jin, T Imamura, E Roijer, B Rosenzweig, K Miyazono, P ten Dijke, G Stenman.

Mammalian Genome 1999 Mar; 10(3):299.

- [Cloning of human bone morphogenetic protein type IB receptor \(BMPR-IB\) and its expression in prostate cancer in comparison with other BMPRs.](#)

Ide H, Katoh M, Sasaki H, Yoshida T, Aoki K, Nawa Y, Osada Y, Sugimura T, Terada M.

Oncogene 1997 Mar; 14(11):1377.

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [TGF-beta signaling pathway](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)

- [Thrombophilia](#)
- [Tobacco Use Disorder](#)