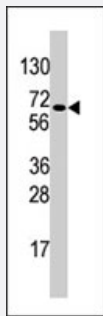


BMPR1A polyclonal antibody

Catalog # PAB3836

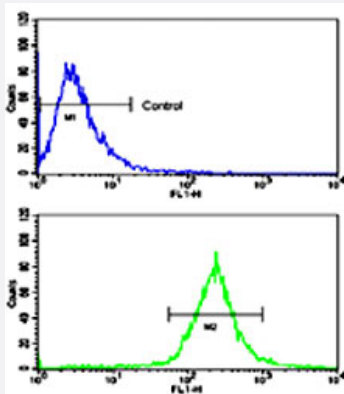
Size 400 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of BMPR1A polyclonal antibody (Cat # PAB3836) in mouse kidney tissue lysates (35 ug/lane). BMPR1A (arrow) was detected using the purified polyclonal antibody.



Flow Cytometry

Flow cytometric analysis of WiDr cells using BMPR1A polyclonal antibody (Cat # PAB3836) (bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of BMPR1A.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human BMPR1A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Flow Cytometry (1:10-50) 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

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Flow cytometric analysis of WiDr cells using BMPR1A polyclonal antibody (Cat # PAB3836)(bottom histogram) compared to a negative control cell (top histogram).

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Gene Info — BMPR1A

Entrez GeneID	657
Protein Accession#	NP_004320;P36894
Gene Name	BMPR1A
Gene Alias	10q23del, ACVRLK3, ALK3, CD292
Gene Description	bone morphogenetic protein receptor, type IA
Omim ID	158350 174900 601299 610069
Gene Ontology	Hyperlink

Gene Summary

The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 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. [provided by RefSeq]

Other Designations

OTTHUMP00000020014|activin A receptor, type II-like kinase 3

Publication Reference

- [BMP2 exposure results in decreased PTEN protein degradation and increased PTEN levels.](#)

Waite KA, Eng C.

Human Molecular Genetics 2003 Mar; 12(6):679.

- [Germline mutations in BMPR1A/ALK3 cause a subset of cases of juvenile polyposis syndrome and of Cowden and Bannayan-Riley-Ruvalcaba syndromes.](#)

Zhou XP, Woodford-Richens K, Lehtonen R, Kurose K, Aldred M, Hampel H, Launonen V, Virta S, Pilarski R, Salovaara R, Bodmer WF, Conrad BA, Dunlop M, Hodgson SV, Iwama T, Jarvinen H, Kellokumpu I, Kim JC, Leggett B, Markie D, Mecklin JP, Neale K, Phillips R, Piris J, Rozen P, Houlston RS, Aaltonen LA, Tomlinson IP, Eng C.

American Journal of Human Genetics 2001 Aug; 69(4):704.

- [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.

Pathway

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

Disease

- [Adenomatous Polyposis Coli](#)

- [Alzheimer Disease](#)
- [Anemia](#)
- [Bacteremia](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Diabetes Mellitus](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Insulin Resistance](#)
- [Intestinal Polyposis](#)
- [Intestinal Polyps](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Peutz-Jeghers Syndrome](#)
- [Polycystic Ovary Syndrome](#)
- [Polyps](#)
- [Precancerous Conditions](#)
- [Puberty](#)
- [Stomach Neoplasms](#)
- [Telangiectasia](#)

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