

For Research Use Only

# BMPR2 Polyclonal antibody

Catalog Number: 19087-1-AP

Featured Product

6 Publications



## Basic Information

**Catalog Number:**

19087-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5868

**GenBank Accession Number:**

BC052985

**GeneID (NCBI):**

659

**UNIPROT ID:**

Q13873

**Full Name:**

bone morphogenetic protein receptor,  
type II (serine/threonine kinase)

**Calculated MW:**

115 kDa

**Observed MW:**

120 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

FC, IHC, IP, WB, ELISA

**Cited Applications:**

IF, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

WB: human heart tissue, mouse brain tissue

IP: mouse brain tissue,

IHC: human heart tissue,

## Background Information

BMPs (bone morphogenetic protein) are involved in endochondral bone formation and embryogenesis. BMPR2 encodes a member of the (BMP) receptor family of transmembrane serine/threonine kinases. It is a widely expressed receptor, with high mRNA expression during development in many tissues. Dimer of BMPR2 receptors (70-80 kD) forms a complex with a dimer of type I BMPR1(50-55 kD) in signal transduction. This antibody recognizes endogenous levels of total BMPR2 protein, including 115 kD precursor, 75 kD mature form and 150 kD dimer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Sanna Vattulainen-Collanus	30272025	Commun Biol	WB
Yongyi Bai	34546460	Basic Res Cardiol	WB, IF
Ling Guo	31578224	J Cell Biol	

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

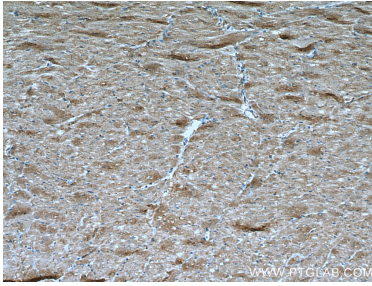
T: 4006900926

E: Proteintech-CN@ptglab.com

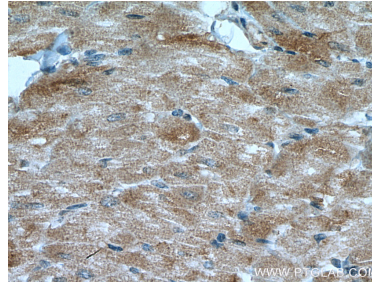
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

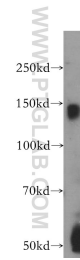
## Selected Validation Data



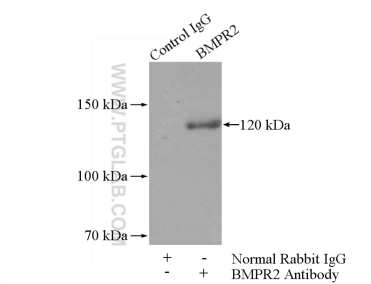
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 19087-1-AP (BMPR2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



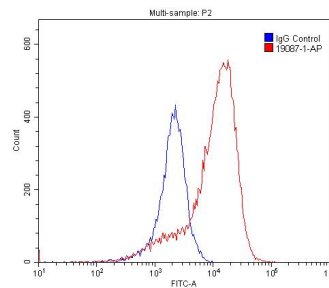
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 19087-1-AP (BMPR2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



human heart tissue were subjected to SDS PAGE followed by western blot with 19087-1-AP (BMPR2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



IP result of anti-BMPR2 (IP:19087-1-AP, 4ug; Detection:19087-1-AP 1:1500) with mouse brain tissue lysate 4000ug.



1x10<sup>6</sup> PC-3 cells were stained with 0.2ug BMPR2 antibody (19087-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.