BMPR2 Antibody (NT)

ALTERNATE NAMES: BMPR2; PPH1; Bone morphogenetic protein receptor type-2; Bone morphogenetic protein receptor type II

CATALOG #: 6780-100

AMOUNT: 100 µl

HOST/ISOTYPE: Rabbit

IMMUNOGEN: This BMPR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-59 amino acids from the N-terminal region of human BMPR2.

MOLECULAR WEIGHT: ~115.201 kDa

FORM: Liquid

FORMULATION: In PBS with 0.09% (W/V) sodium azide.

PURIFICATION: This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

SPECIES REACTIVITY: Human, Mouse.

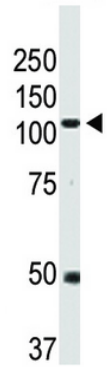
STORAGE CONDITIONS: Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: BMPR2 is a type II serine/threonine receptor kinase that binds to an array of secreted bone morphogenetic proteins (BMPs). BMPs belong to the superfamily of TGF-β ligands that modulate gastrulation, neurogenesis, chondrogenesis, interdigital cell death, and bone morphogenesis. In contrast to the TGF-β type II receptor, BMPR2 contains an extended carboxyl-terminal region that interacts with multiple signaling molecules to modulate the responsiveness of target genes to BMPs. BMP signaling requires oligomerization of both type I and type II receptors to elicit a functional response of target genes. BMP binding to type I and II receptors induces Smad1/5/8 phosphorylation which is required for the activation of target genes. In vitro and in vivo evidence suggests that defects in BMPR2 may contribute to pulmonary hypertension, inflammation, and endothelial injury.

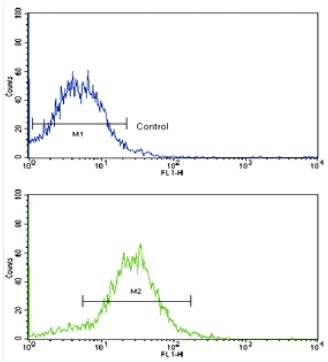
APPLICATION: WB: 1:1000, IHC: 1:10 – 1:50, FC: 1:10 – 1:50.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

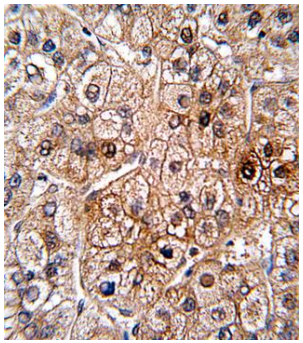
FOR RESEARCH USE ONLY! Not to be used on humans.



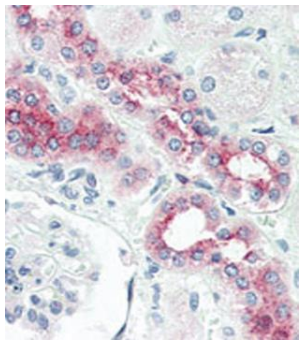
Western blot analysis in mouse heart tissue lysate. BMPR2 (arrow) was detected using purified Pab.



FACS analysis of HepG2 cells using BMPR2 Antibody (bottom histogram) compared to a negative control cell (top histogram).



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with BMPR2 antibody which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Formalin-fixed and paraffin-embedded human Kidney tissue reacted with BMPR2 antibody which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

RELATED PRODUCTS:

- BMP-10, human recombinant **(Cat # 4581-20, -100, -1000)**
- BMP-11, human recombinant **(Cat # 4576-10, -50, -1000)**
- BMP-12, human recombinant **(Cat # 4572-20, -100, -1000)**
- BMP-13, human recombinant **(Cat # 4639-10, -50, -1000)**
- BMP-14, human recombinant **(Cat # 4580-10, -50, -1000)**
- BMP-2, human recombinant **(Cat # 4577-10, -50, -1000)**
- BMP-3, human recombinant **(Cat # 4573-10, -50, -1000)**
- BMP-4, human recombinant **(Cat # 4578-10, -50, -1000)**
- BMP-5, human recombinant **(Cat # 4574-10, -50, -1000)**
- BMP-6, human recombinant **(Cat # 4911-10, -50, -1000)**
- BMP-7, human recombinant **(Cat # 4579-10, -50, -1000)**
- BMPR1A, human recombinant **(Cat # 4881-10, -1000)**

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