

BMPR2 Antibody (NT)
Rabbit Polyclonal Antibody
Catalog # ABV11322**Specification****BMPR2 Antibody (NT) - Product Information**

Application	WB, IHC, FC
Primary Accession	Q13873
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	115201

BMPR2 Antibody (NT) - Additional Information**Gene ID 659**

Positive Control	Western blot: mouse heart tissue lysate, IHC: human hepatocarcinoma and kidney tissues, FACS: HepG2 cells.
Application & Usage	WB: 1:1000, IHC: 1:10 - 1:50, FC: 1:10 - 1:50.

Other Names

BMPR2; PPH1; Bone morphogenetic protein receptor type-2; Bone morphogenetic protein receptor type II

Target/Specificity

BMPR2

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

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

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage**BMPR2 Antibody (NT) - Background**

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.

-20 °C

Background Descriptions

Precautions

BMPR2 Antibody (NT) is for research use only and not for use in diagnostic or therapeutic procedures.

BMPR2 Antibody (NT) - Protein Information

Name BMPR2

Synonyms PPH1

Function

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Binds to BMP7, BMP2 and, less efficiently, BMP4. Binding is weak but enhanced by the presence of type I receptors for BMPs. Mediates induction of adipogenesis by GDF6.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Highly expressed in heart and liver.

BMPR2 Antibody (NT) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)