

**BMPR1B Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12034c**

**Specification**

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**BMPR1B Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O00238</a>
Other Accession	<a href="#">NP_001194.1</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>56930</b>
Antigen Region	<b>134-162</b>

**BMPR1B Antibody (Center) - Additional Information**

**Gene ID** 658

**Other Names**

Bone morphogenetic protein receptor type-1B, BMP type-1B receptor, BMPR-1B, CDw293, BMPR1B

**Target/Specificity**

This BMPR1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 134-162 amino acids from the Central region of human BMPR1B.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BMPR1B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**BMPR1B Antibody (Center) - Protein Information**

**Name** BMPR1B

**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. Receptor for BMP7/OP-1 and GDF5. Positively regulates chondrocyte differentiation through GDF5 interaction.

#### Cellular Location

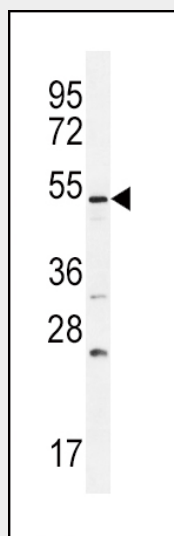
Cell membrane; Single-pass type I membrane protein

#### BMPR1B Antibody (Center) - Protocols

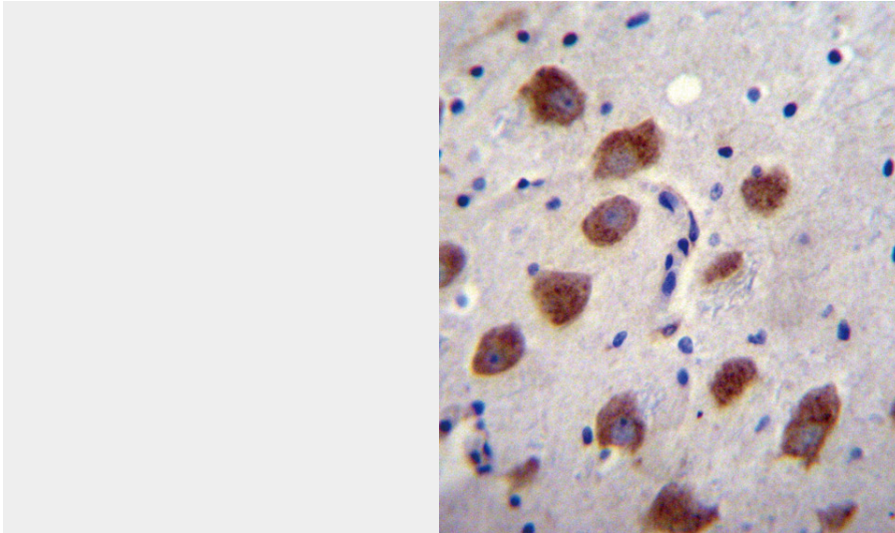
Provided below are standard protocols that you may find useful for product applications.

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

#### BMPR1B Antibody (Center) - Images



BMPR1B Antibody (Center) (Cat. #AP12034c) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the BMPR1B antibody detected the BMPR1B protein (arrow).



BMPRI1B Antibody (Center) (Cat. #AP12034c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of BMPRI1B Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **BMPRI1B Antibody (Center) - Background**

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.

#### **BMPRI1B Antibody (Center) - References**

Mick, E., et al. J Am Acad Child Adolesc Psychiatry 49(9):898-905(2010)  
Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010)  
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :  
Ma, Y., et al. J. Exp. Clin. Cancer Res. 29, 85 (2010) :  
Saetrom, P., et al. Cancer Res. 69(18):7459-7465(2009)