


## Product datasheet

### Anti-BMPR2 antibody ab96826

★★★★★ [2 Abreviews](#) [9 References](#) [2 Images](#)

#### Overview

Product name	Anti-BMPR2 antibody
Description	Rabbit polyclonal to BMPR2
Host species	Rabbit
Tested applications	<b>Suitable for:</b> ICC/IF, WB
Species reactivity	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
Immunogen	Recombinant fragment containing a sequence corresponding to a region within amino acids 667-921 of Human BMPR2 (NP_001195).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

#### Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab96826 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 115 kDa.

## Target

### 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 BMP-7, BMP-2 and, less efficiently, BMP-4. Binding is weak but enhanced by the presence of type I receptors for BMPs.

### Tissue specificity

Highly expressed in heart and liver.

### Involvement in disease

Defects in BMPR2 are the cause of primary pulmonary hypertension (PPH1) [MIM:178600]. PPH1 is a rare autosomal dominant disorder characterized by plexiform lesions of proliferating endothelial cells in pulmonary arterioles. The lesions lead to elevated pulmonary arterial pressure, right ventricular failure, and death. The disease can occur from infancy throughout life and it has a mean age at onset of 36 years. Penetrance is reduced. Although familial PPH1 is rare, cases secondary to known etiologies are more common and include those associated with the appetite-suppressant drugs.

Defects in BMPR2 are a cause of pulmonary venoocclusive disease (PVOD) [MIM:265450]. PVOD is a rare form of pulmonary hypertension in which the vascular changes originate in the small pulmonary veins and venules. The pathogenesis is unknown and any link with PPH1 has been speculative. The finding of PVOD associated with a BMPR2 mutation reveals a possible pathogenetic connection with PPH1.

### Sequence similarities

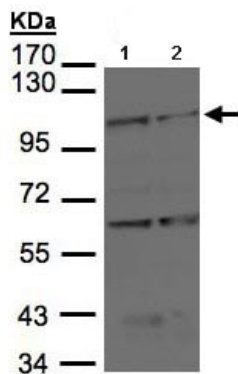
Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.

Contains 1 protein kinase domain.

### Cellular localization

Membrane.

## Images



Western blot - Anti-BMPR2 antibody (ab96826)

**All lanes :** Anti-BMPR2 antibody (ab96826) at 1/1000 dilution

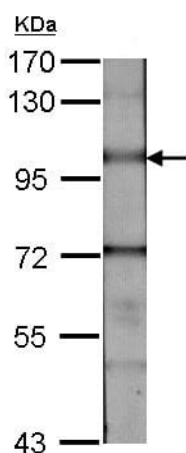
**Lane 1 :** H1299 whole cell lysate

**Lane 2 :** Raji whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 115 kDa

7.5% SDS-PAGE



Western blot - Anti-BMPR2 antibody (ab96826)

Anti-BMPR2 antibody (ab96826) at 1/1000 dilution + NIH-3T3 whole cell lysate at 30 µg

**Predicted band size:** 115 kDa

7.5% SDS-PAGE

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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