

Datasheet for ABIN968806
anti-BMPR2 antibody (AA 803-996)



[Go to Product page](#)

1 Image

3 Publications

Overview

Quantity:	50 µg
Target:	BMPR2
Binding Specificity:	AA 803-996
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BMPR2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse BMPR-II aa. 803-996
Clone:	18-BMPR
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	BMPR2
Alternative Name:	BMPR-II (BMPR2 Products)
Background:	The transforming growth factor beta (TGFbeta)/activin/BMP family of growth factor plays a diverse and important role in growth, development, and differentiation. The receptors for this family of proteins are type I and II ser/thr kinase receptors. Bone morphogenetic protein receptors (BMPRs) include two type I receptors, BMPR-IA and BMPR-IB, and a type II receptor, BMPR-II. BMPR-II is a widely expressed receptor, with high mRNA expression during development in many tissues. BMPR-II transfected COS-1 cells show binding to BMP-7 (osteogenic protein-1) and BMP-4, and co-transfection with the type I receptor, ActR-I, leads to transcriptional activation in response to BMP-7. In addition, extracellular matrix proteins may regulate the expression of BMPR-II during angiogenesis, since fibrillar type I collagen induces BMPR-II expression in endothelial cells. In familial primary pulmonary hypertension, the BMPR-II gene is mutated in a manner that may disrupt ligand binding, kinase activity, and heteromeric dimer formation. Thus, BMPR-II may be an important mediator of BMP effects during growth and differentiation of endothelial cells.
Molecular Weight:	130 kDa
Pathways:	Growth Factor Binding

Application Details

Comment:	Related Products: ABIN968540, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

Regazzoni, Winterhalter, Rohrer: "Type I collagen induces expression of bone morphogenetic protein receptor type II." in: **Biochemical and biophysical research communications**, Vol. 283, Issue 2, pp. 316-22, (2001) ([PubMed](#)).

, Lane, Machado, Pauciulo, Thomson, Phillips, Loyd, Nichols, Trembath: "Heterozygous germline mutations in BMPR2, encoding a TGF-beta receptor, cause familial primary pulmonary hypertension." in: **Nature genetics**, Vol. 26, Issue 1, pp. 81-4, (2000) ([PubMed](#)).

Rosenzweig, Imamura, Okadome, Cox, Yamashita, ten Dijke, Heldin, Miyazono: "Cloning and characterization of a human type II receptor for bone morphogenetic proteins." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 92, Issue 17, pp. 7632-6, (1995) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of BMPR-II on mouse cerebrum lysate. Lane 1: 1:250, lane 2 :1:500, lane 3: 1:1000 dilution of anti-BMPR-II antibody