Datasheet for ABIN7601062

anti-BMPR2 antibody (AA 28-1038)

Go to Product page

Overview

Quantity:	100 µg
Target:	BMPR2
Binding Specificity:	AA 28-1038
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMPR2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-BMPR2 Antibody Picoband®
Immunogen:	E.coli-derived human BMPR2 recombinant protein (Position: Q28-L1038).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-BMPR2 Antibody Picoband® (ABIN7601062). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	BMPR2
Alternative Name:	BMPR2 (BMPR2 Products)
Background:	Synonyms: Bone morphogenetic protein receptor type-2, BMP type-2 receptor, BMPR-2, Bone morphogenetic protein receptor type II, BMP type II receptor, BMPR-II, BMPR2, PPH1 Tissue Specificity: Highly expressed in heart and liver. Background: Bone morphogenetic protein receptor type II or BMPR2 is a serine/threonine receptor kinase. 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 two 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, both familial and fenfluramine-associated, and with pulmonary venoocclusive disease.
Molecular Weight:	150 kDa
Gene ID:	659
UniProt:	Q13873
Pathways:	Growth Factor Binding

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, -

1. Aldred, M. A., Vijayakrishnan, J., James, V., Soubrier, F., Gomez-Sanchez, M. A., Martensson, G., Galie, N., Manes, A., Corris, P., Simonneau, G., Humbert, M., Morrell, N. W., Trembath, R. C. BMPR2 gene rearrangements account for a significant proportion of mutations in familial and idiopathic pulmonary arterial hypertension. (Abstract) Hum. Mutat. 27: 212-213, 2006. 2. Machado, R. D., Pauciulo, M. W., Thomson, J. R., Lane, K. B., Morgan, N. V., Wheeler, L., Phillips, J. A., III, Newman, J., Williams, D., Galie, N., Manes, A., McNeil, K., and 11 others.BMPR2 haploinsufficiency as the inherited molecular mechanism for primary pulmonary hypertension.

Application Details

	Am. J. Hum. Genet. 68: 92-102, 2001.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.