

Datasheet for ABIN7603023
anti-BMPR1A antibody (Middle Region)



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Overview

Quantity:	100 µg
Target:	BMPR1A
Binding Specificity:	Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMPR1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-BMPR1A Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human BMPR1A, which shares 95.8% amino acid (aa) sequence identity with mouse BMPR1A.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-BMPR1A Antibody Picoband® (ABIN7603023). Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human, 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:	BMPR1A
Alternative Name:	BMPR1A (BMPR1A Products)
Background:	Synonyms: BMPR1A, ACVRLK3, ALK3, Bone morphogenetic protein receptor type-1A, BMP type-1A receptor, BMPR-1A, EC 2.7.11.30, Activin receptor-like kinase 3, ALK-3, Serine/threonine-protein kinase receptor R5, SKR5, CD antigen CD292 Background: The bone morphogenetic protein receptor, type IA also known as BMPR1A is a protein which in humans is encoded by the BMPR1A gene. The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 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.
Molecular Weight:	60 kDa
Gene ID:	657
UniProt:	P36894
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Rat Immunohistochemistry, 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human 1. Astrom, A.-K., Jin, D., Imamura, T., Roijer, E., Rosenzweig, B., Miyazono, K., ten Dijke, P., Stenman, G. Chromosomal localization of three human genes encoding bone morphogenetic protein receptors. Mammalian Genome 10: 299-302, 1999. 2. Cao, X., Eu, K. W., Kumarasinghe, M. P., Li, H. H., Loi, C., Cheah, P. Y. Mapping of hereditary mixed polyposis syndrome (HMPS) to chromosome 10q23 by genomewide high-density single nucleotide polymorphism (SNP) scan and identification of BMPR1A loss of function. J. Med. Genet. 43: e13, 2006. Note: Electronic Article. 3. Cejalvo, T., Sacedon, R., Hernandez-Lopez, C., Diez, B., Gutierrez-Frias, C., Valencia, J., Zapata, A. G., Varas, A., Vicente, A. Bone morphogenetic protein-2/4 signalling pathway
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Application Details

	components are expressed in the human thymus and inhibit early T-cell development. Immunology 121: 94-104, 2007.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Adding 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:	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 freezing and thawing.