Datasheet for ABIN1882067

anti-BMPR1A antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	BMPR1A
Binding Specificity:	AA 166-196, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMPR1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This BMPR1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 166-196 amino acids from the C-terminal region of human BMPR1A.
Clone:	RB01772
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	BMPR1A
Alternative Name:	BMPR1A (BMPR1A Products)

Target Details

Background:	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:	60198
NCBI Accession:	NP_004320
UniProt:	P36894
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Kamiya, Shuxian, Yamaguchi, Phipps, Aruwajoye, Adapala, Yuan, Kim, Feng: "Targeted disruption of BMP signaling through type IA receptor (BMPR1A) in osteocyte suppresses SOST and RANKL, leading to dramatic increase in bone mass, bone mineral density and mechanical

Publications

strength." in: **Bone**, Vol. 91, pp. 53-63, (2017) (PubMed).

Hayano, Komatsu, Pan, Mishina: "Augmented BMP signaling in the neural crest inhibits nasal cartilage morphogenesis by inducing p53-mediated apoptosis." in: **Development (Cambridge, England)**, Vol. 142, Issue 7, pp. 1357-67, (2015) (PubMed).

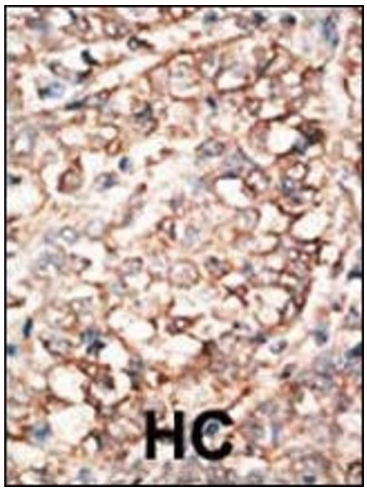
Srikanth, Kim, Das, Kessler: "BMP signaling induces astrocytic differentiation of clinically derived oligodendroglioma propagating cells." in: **Molecular cancer research : MCR**, Vol. 12, Issue 2, pp. 283-94, (2014) (PubMed).

Zhang, Feng, Yang, Koga, Teitelbaum: "The bone morphogenetic protein signaling pathway is upregulated in a mouse model of total parenteral nutrition." in: **The Journal of nutrition**, Vol. 139, Issue 7, pp. 1315-21, (2009) (PubMed).

Pache, Schäfer, Wiesemann, Springer, Liebau, Reinhardt, August, Pavenstädt, Bek: "Upregulation of Id-1 via BMP-2 receptors induces reactive oxygen species in podocytes." in: **American journal of physiology. Renal physiology**, Vol. 291, Issue 3, pp. F654-62, (2006) (PubMed).

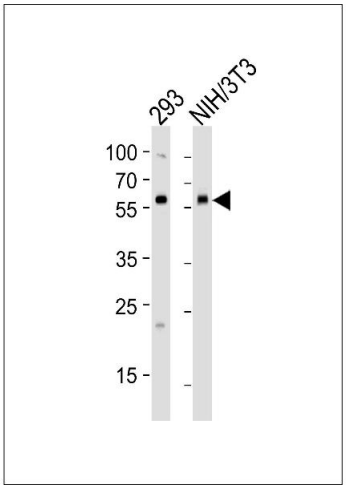
There are more publications referencing this product on: Product page

Images



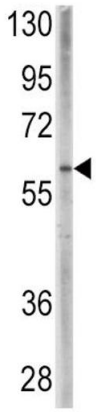
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of lysates from 293, mouse NIH/3T3 cell line (from left to right), using BR1A Antibody (ABIN1882067 and ABIN2838942). (ABIN1882067 and ABIN2838942) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.



Western Blotting

Image 3. Western blot analysis of anti-BR1A Pab (ABIN1882067 and ABIN2838942) in CEM cell line lysates (35 µg/lane). BR1A(arrow) was detected using the purified Pab.