Datasheet for ABIN388739

anti-BMPR1B antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	BMPR1B
Binding Specificity:	AA 472-502, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMPR1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This BMPR1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 472-502 amino acids from the C-terminal region of human BMPR1B.
Clone:	RB01776
Isotype:	Ig Fraction
Predicted Reactivity:	C, M
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	BMPR1B

Target Details

Alternative Name:	BMPR1B (BMPR1B Products)
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:	56930
Gene ID:	658
NCBI Accession:	NP_001194, NP_001243721, NP_001243722, NP_001243723
UniProt:	O00238

Application Details

Application Notes:	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
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

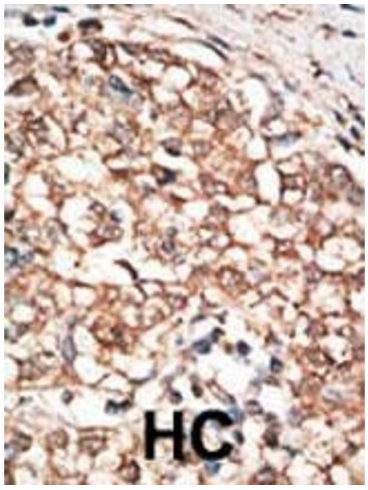
Product cited in:

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).

Kan, Liu, McGuire, Berger, Awatramani, Dymecki, Kessler: "Dysregulation of local stem/progenitor cells as a common cellular mechanism for heterotopic ossification." in: **Stem cells (Dayton, Ohio)**, Vol. 27, Issue 1, pp. 150-6, (2009) (PubMed).

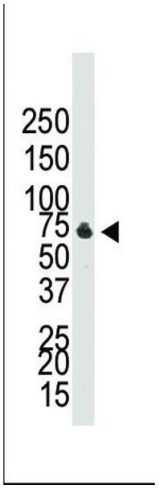
Nicholls, Harrison, Gilchrist, Farnworth, Stanton: "Growth differentiation factor 9 is a germ cell regulator of Sertoli cell function." in: **Endocrinology**, Vol. 150, Issue 5, pp. 2481-90, (2009) (PubMed).

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 DAB 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 anti-BR1B Pab ap2005b in NCI- cell lysate. BR1B (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.