Datasheet for ABIN2855400

anti-BMPR1B antibody

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Overview

Quantity:	100 µL
Target:	BMPR1B
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMPR1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human BMPR1B. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rat
Characteristics:	Rabbit polyclonal antibody to BMPR1B (bone morphogenetic protein receptor, type IB) BMPR1B antibody [N3C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	BMPR1B
Alternative Name:	bone morphogenetic protein receptor type 1B (BMPR1B Products)

Target Details

Background:	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 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. Mutations in this gene have been associated with primary pulmonary hypertension. Cellular Localization: Membrane
Molecular Weight:	57 kDa
Gene ID:	658
UniProt:	O00238

Application Details

Application Notes:	WB: 1:500-1:10000. IHC-P: 1:100-1:1000. IHC-Fr: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: 293T , A431 , HeLa , HepG2 , human BMPR1B-transfected 293T cells , Neuro2A , C8D30 , NIH-3T3 , Rat2 Validation: Overexpression
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

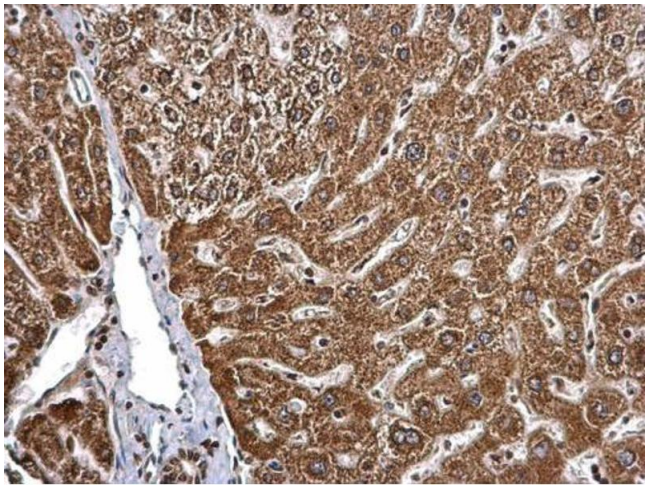
Handling

Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

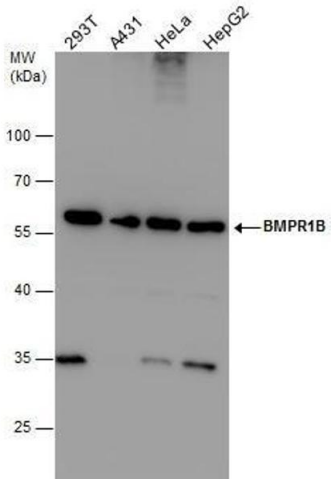
Product cited in:	Piquet, Le Parc, Bai, Chevallier, Adam, Polo: "The Histone Chaperone FACT Coordinates H2A.X-Dependent Signaling and Repair of DNA Damage." in: **Molecular cell**, Vol. 72, Issue 5, pp. 888-901.e7, (2018) (PubMed).

Validation report #104383 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



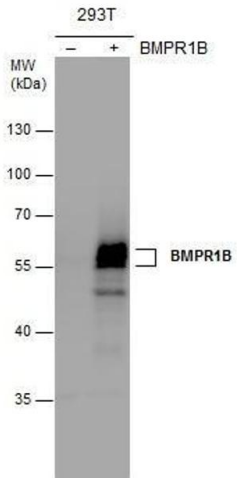
Immunohistochemistry

Image 1. IHC-P Image BMPR1B antibody [N3C3] detects BMPR1B protein at cytosol on human hepatoma by immunohistochemical analysis. Sample: Paraffin-embedded human hepatoma. BMPR1B antibody [N3C3] , dilution: 1:500.



Western Blotting

Image 2. WB Image BMPR1B antibody detects BMPR1B protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with BMPR1B antibody , diluted at 1:1000.



Western Blotting

Image 3. WB Image BMPR1B antibody detects BMPR1B protein by western blot analysis. Non-transfected (-) and BMPR1B-transfected (+,) 293T whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with BMPR1B antibody , at a dilution of 1:5000.