

Datasheet for ABIN388741

anti-BMPR2 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	BMPR2
Binding Specificity:	AA 28-59, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMPR2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This BMPR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-59 amino acids from the N-terminal region of human BMPR2.
Clone:	RB01778
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	BMPR2
Alternative Name:	BMPR2 (BMPR2 Products)

Target Details

Background:	BMPR2 is 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 BMPR2 have been associated with primary pulmonary hypertension.
Molecular Weight:	115201
Gene ID:	659
NCBI Accession:	NP_001195
UniProt:	Q13873
Pathways:	Growth Factor Binding

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50
Restrictions:	For Research Use only

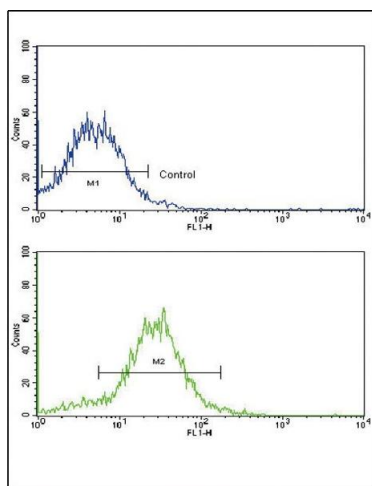
Handling

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.
Handling Advice:	Avoid freeze-thaw cycles.
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.
Expiry Date:	6 months

Publications

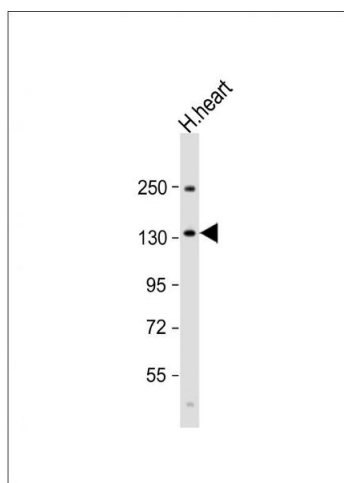
- Product cited in: Wu, Li, Fang, Yi, Chen, Long, Gao, Wei, Chen: "Investigation of synergistic mechanism and identification of interaction site of aldose reductase with the combination of gigantol and syringic acid for prevention of diabetic cataract." in: **BMC complementary and alternative medicine**, Vol. 16, Issue 1, pp. 286, (2017) ([PubMed](#)).
- Guo, Wang, Liu, Myatt, Sun: "Induction of PGF2 γ synthesis by cortisol through GR dependent induction of CBR1 in human amnion fibroblasts." in: **Endocrinology**, Vol. 155, Issue 8, pp. 3017-24, (2014) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

Images



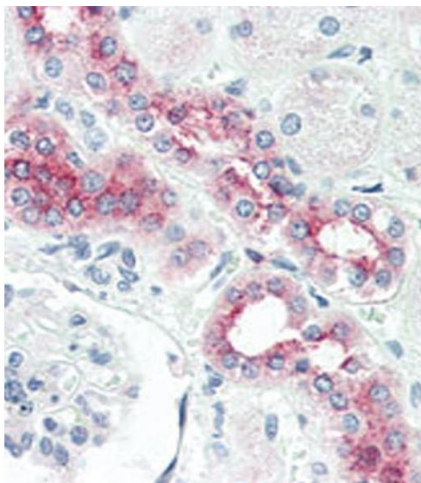
Flow Cytometry

Image 1. Flow cytometric analysis of HepG2 cells using BR2 Antibody (N-term)(bottom histogram) coated to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Anti-BR2 Antibody (D43) at 1:1000 dilution + human heart lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 115 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin-embedded human Kidney tissue reacted with BR2 antibody (N-term) (ABIN388741 and ABIN2850427) , 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.