

Datasheet for ABIN968988

**anti-BMPR2 antibody**

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## Overview

Quantity:	100 µL
Target:	BMPR2
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Purified recombinant fragment of human BMPR2 expressed in E. coli.
Clone:	3F6
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	BMPR2
Alternative Name:	BMPR2 ( <a href="#">BMPR2 Products</a> )
Background:	Description: 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 two different types of serine (threonine) kinase receptors: type I

## Target Details

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, both familial and fenfluramine-associated, and with pulmonary venoocclusive disease. (provided by RefSeq)

Aliases: BMR2, PPH1, BMPR3, BRK-3, T-ALK, BMPR-II, FLJ41585, FLJ76945, BMPR2

Molecular Weight: 115 kDa

Gene ID: 659

HGNC: 659

Pathways: [Growth Factor Binding](#)

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % 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

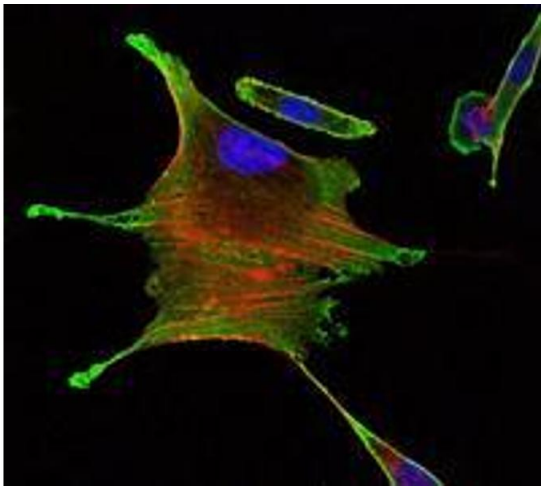
Storage Comment: 4°C, -20°C for long term storage

## Publications

Product cited in: Durkin, Guo, Fryrear, Mihaylova, Gupta, Belgnaoui, Haoudi, Kupfer, Semmes: "HTLV-1 Tax oncoprotein subverts the cellular DNA damage response via binding to DNA-dependent protein kinase." in: **The Journal of biological chemistry**, Vol. 283, Issue 52, pp. 36311-20, (2008) ([PubMed](#)).

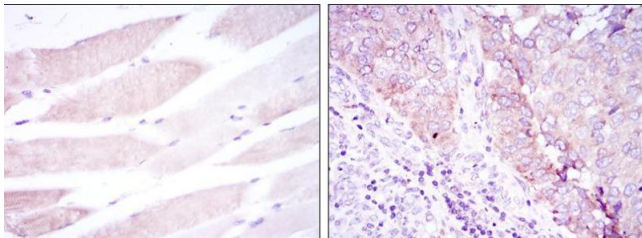
Huston, Lynch, Mohamed, Collins, Hill, MacLeod, Krause, Baillie, Houslay: "EPAC and PKA allow cAMP dual control over DNA-PK nuclear translocation." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 105, Issue 35, pp. 12791-6, (2008) ([PubMed](#)).

## Images



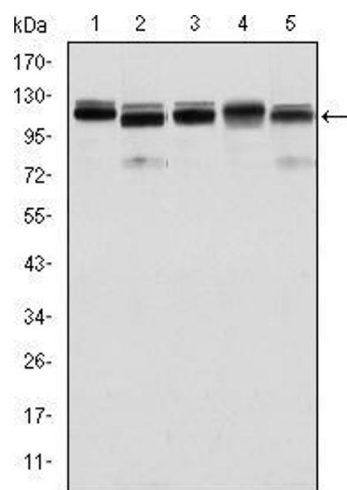
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of Eca109 cells using BMPR2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



### Immunohistochemistry

**Image 2.** Immunohistochemical analysis of paraffin-embedded muscle tissues (left) and kidney cancer tissues (right) using BMPR2 mouse mAb with DAB staining.



### Western Blotting

**Image 3.** Western blot analysis using BMPR2 mouse mAb against Hela (1), A431 (2), NIH/3T3 (3), Cos7 (4) and PC-12 (5) cell lysate.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968988.