

# Product Datasheet

## BMPR-II Antibody (3F6)

### NBP2-37624

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-37624****BMPR-II Antibody (3F6)**

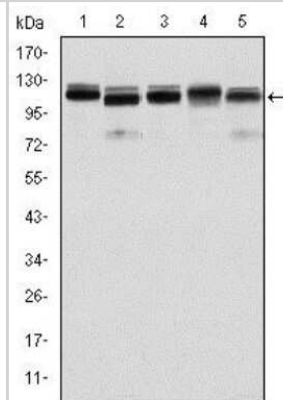
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	3F6
<b>Preservative</b>	0.03% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Ascites
<b>Buffer</b>	Ascites
<b>Target Molecular Weight</b>	115 kDa

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse BMPR-II Antibody (3F6) (NBP2-37624) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-BMPR-II Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	659
<b>Gene Symbol</b>	BMPR2
<b>Species</b>	Human, Mouse, Rat, Primate, Monkey
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
<b>Immunogen</b>	Purified recombinant fragment of human BMPR-II expressed in E. Coli.

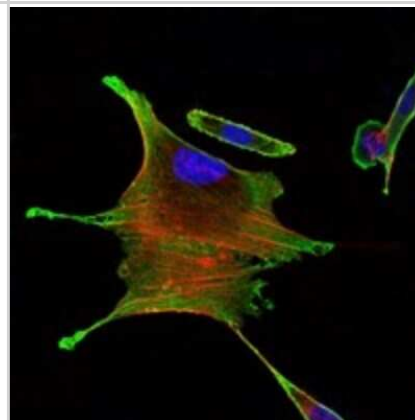
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500 - 1:2000, ELISA 1:10000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200-1:1000

## Images

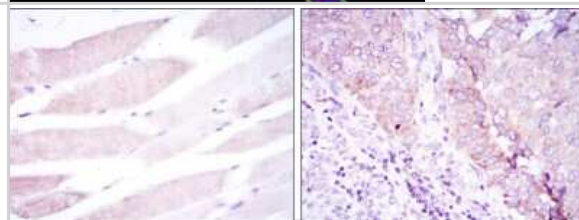
Western Blot: BMPR-II Antibody (3F6) [NBP2-37624] - Analysis using BMPR2 mouse mAb against Hela (1), A431 (2), NIH/3T3 (3), Cos7 (4) and PC-12 (5) cell lysate.



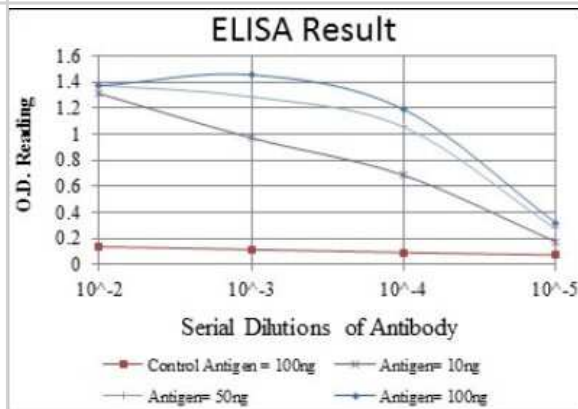
Immunocytochemistry/Immunofluorescence: BMPR-II Antibody (3F6) [NBP2-37624] - Analysis of Eca109 cells using BMPR2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



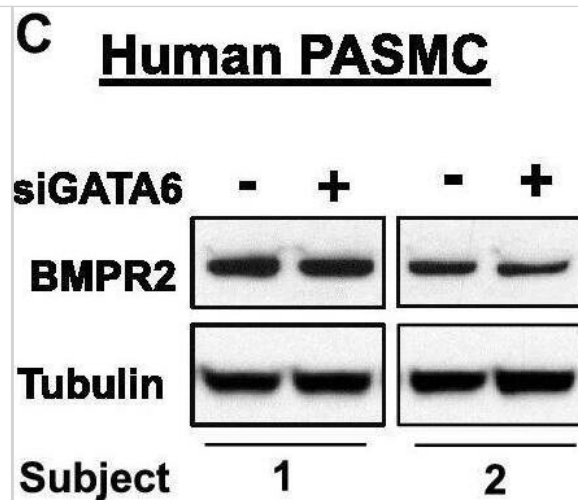
Immunohistochemistry-Paraffin: BMPR-II Antibody (3F6) [NBP2-37624] - Muscle tissues (left) and kidney cancer tissues (right) using BMPR2 mouse mAb with DAB staining.



ELISA: BMPR-II Antibody (3F6) [NBP2-37624] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



GATA6 deficiency in PAEC and PASMC results in loss of BMP receptors. (A) qPCR of HPAECs transfected with GATA6 or control scr siRNA ( - ) to measure indicated mRNA, each experiment was repeated at least three times. Data are means  $\pm$  SE,  $n = 4-7$ .  $**p < 0.01$ ,  $***p < 0.001$  by Mann Whitney U test. (B) Chromatin immune precipitation (ChiP) assay in HPAECs,  $n = 8-10$ . Representative gel images and data quantification are shown. Data are means  $\pm$  SE,  $***p < 0.001$ ,  $****p < 0.0001$  by Mann Whitney U test. (C,D) Immunoblot analysis of control human PASMC transfected with siRNA GATA6 or control scr siRNA for 48 h. Data are means  $\pm$  SE, 3 subjects/group,  $*p < 0.05$  by Mann Whitney U test. Please see Fig. 2F,G for GATA6 immunoblots. (E,F) Expression of BmpR2, Alk1, ActRIIB, and endoglin measured by qPCR in PAEC (F) and whole lungs (G) from WT and Gata6 CKO mice. Data are means  $\pm$  SE; E:  $n = 4-5$ /group; F:  $n = 6-11$  mice/group. Male and female mice responded similarly.  $*p < 0.05$ ,  $**p < 0.01$  by Mann Whitney U test ((E,F) BmpR2, Alk1, and ActRIIB) and unpaired  $t$  test (F Endoglin). (G,H) Control HPAECs transfected with siGATA6 or control scr siRNA ( - ) were assayed by immunoblot analysis to detect indicated BMP receptors. Values are means  $\pm$  SE of the relative protein levels by densitometry,  $n = 4-7$ .  $*p < 0.05$ ,  $***p < 0.001$  by Mann Whitney U test. (I,J) Immunoblot analysis of whole lung tissue from Gata6 CKO and WT mice. Values are means  $\pm$  SE of the relative protein levels by densitometry,  $n = 3-5$ /group. Male and female mice responded similarly.  $*p < 0.05$ ,  $**p < 0.01$  by Mann Whitney U test. The original blots are presented in Supplementary Fig. S17. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37087509>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Toyama T, Kudryashova TV, Ichihara A et al. GATA6 coordinates cross-talk between BMP10 and oxidative stress axis in pulmonary arterial hypertension Scientific reports 2023-04-22 [PMID: 37087509] (WB, Human)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-37624**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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