

# BMPR2 Monoclonal Antibody (3F6F8)

| Product Details    |  |
|--------------------|--|
| Size               | 100 µg   |
| Species Reactivity | Human, Mouse, Non-human primate, Rat   |
| Published Species  | Rat, Bovine, Human, Mouse  |
| Host/Isotype       | Mouse / IgG1   |
| Class              | Monoclonal   |
| Type               | Antibody   |
| Clone              | 3F6F8  |
| Conjugate          | Unconjugated   |
| Immunogen          | Purified recombinant fragment of human BMPR2 expressed in E. Coli.                           |
| Form               | Liquid   |
| Concentration      | 1 mg/mL  |
| Purification       | Protein A  |
| Storage buffer     | PBS  |
| Contains           | 0.05% sodium azide   |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID               | AB_11156844  |

| Applications                              | Tested Dilution | Publications   |
|---|-----------------|----------------|
| Western Blot (WB)                         | 1:500-1:1,000   | 5 Publications |
| Immunohistochemistry (IHC)                | -               | 2 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | 2-4 ug/mL       | 1 Publication  |
| Immunocytochemistry (ICC/IF)              | 1:100-1:200     | -              |
| Flow Cytometry (Flow)                     | 1:100-1:200     | -              |
| ELISA (ELISA)                             | -               | 1 Publication  |
| Immunoprecipitation (IP)                  | -               | 1 Publication  |

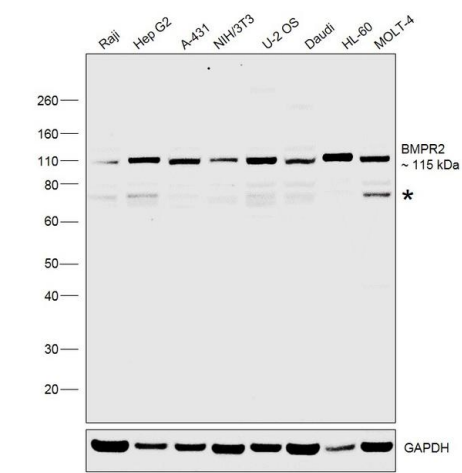
## Product Specific Information

MA5-15827 targets BMPR2 in FACS, ICC/IF, IHC (P), and WB applications and shows reactivity with Human, mouse, Non-human primate, and rat samples.

Product Images For BMPR2 Monoclonal Antibody (3F6F8)

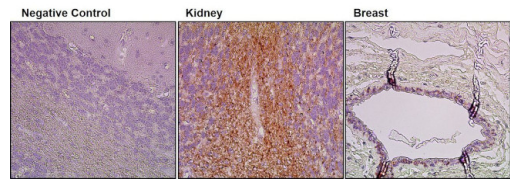
BMPR2 Antibody (MA5-15827) in WB

Western blot was performed using Anti-BMPR2 Monoclonal Antibody (Product # MA5-15827) and ~115kDa band corresponding to BMPR2 was observed across cell lines tested along with an uncharacterized band (\*) at ~75kDa. Whole cell extracts (30 µg lysate) of Raji (Lane 1), Hep G2 (Lane 2), A-431 (Lane 3), NIH /3T3 (Lane 4), U-2 OS (Lane 5), Daudi (Lane 6), HL-60 (Lane 7) and MOLT-4 (Lane 8) were electrophoresed using NuPAGE® 4-12% Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



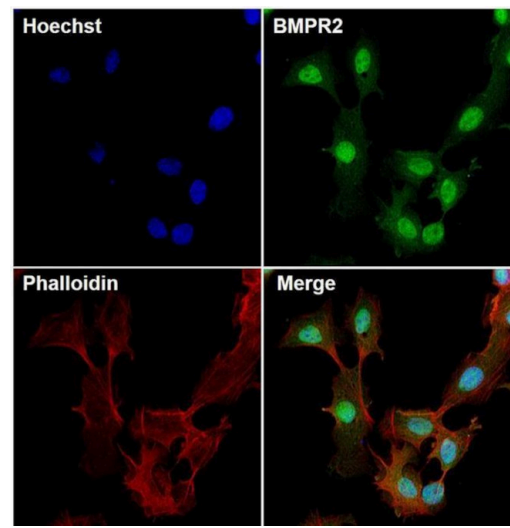
BMPR2 Antibody (MA5-15827) in IHC (P)

Immunohistochemistry was performed on human kidney and human breast tissue. Tissue was deparaffinized with xylene, followed by rehydration in sequential washes of 100% ethanol, 95% ethanol, 80% ethanol, and water. To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0) and heated for 20 min. Following antigen retrieval, tissues were blocked in a 10% goat serum (Product # 31872) in wash buffer solution for 30 minutes at room temperature and endogenous peroxidase activity quenched with Peroxidase Suppressor (Product # 35000). Tissue was then probed with a BMPR2 mouse monoclonal antibody (Product # MA5-15827) at a concentration of 2.5 µg/mL in 10% goat serum in wash buffer for 1 hour at room temperature in a humidified chamber. Negative control tissue received no primary antibody. Tissues were washed extensively with PBST, and detection was performed using a SuperBoost™ goat anti-mouse Poly HRP secondary antibody reagent (Product # B40961) followed by colorimetric detection using DAB Quanto (Product # TA-125-QHDX). Tissues were then counterstained with hematoxylin and prepped for mounting and imaging.



BMPR2 Antibody (MA5-15827) in ICC/IF

Immunofluorescent analysis of BMPR2 (green) in HepG2 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes at -20c, permeabilized with 0.1% Triton X-100 for 15 minutes, and blocked with 3% BSA for 30 minutes at room temperature. Cells were stained with a BMPR2 mouse monoclonal antibody (Product # MA5-15827) at a concentration of 10 µg/mL in blocking buffer for 1 hour at room temperature, and then incubated with a Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor Plus 488 conjugate (Product # A32723) at a dilution of 1:500 for at least 30 minutes at a room temperature in the dark (green). F-actin (red) was stained with Dylight 554 Phalloidin. Nuclei (blue) were stained with Hoechst 33342 (Product # 62249). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.



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Western Blot (5)

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| <p>Angiogenesis</p> <p><b>Exacerbated inflammatory signaling underlies aberrant response to BMP9 in pulmonary arterial hypertension lung endothelial cells.</b></p> <p>"Published figure using BMPR2 monoclonal antibody (Product # MA5-15827) in Western Blot"</p> <p>Authors: Szulcek R,Sanchez-Duffhues G,Rol N,Pan X,Tsonaka R,Dickhoff C,Yung LM,Manz XD,Kurakula K,Kiebasa SM,Mei H,Timens W,Yu PB,Bogaard HJ,Goumans MJ</p>   | <p>Year<br/>2020</p> <p>Species<br/>Human</p> <p>Dilution<br/>1:2000</p> |
| <p>Cells</p> <p><b>The BMP Receptor 2 in Pulmonary Arterial Hypertension: When and Where the Animal Model Matches the Patient.</b></p> <p>"MA5-15827 was used in Western Blotting to analyse the BMPR2 expression and activity in the lungs of rats with experimentally induced PAH and compared this to the BMPR2 expression and activity in the lungs of PAH patients."</p> <p>Authors: Happé C,Kurakula K,Sun XQ,da Silva Goncalves Bos D,Rol N,Guignabert C,Tu L,Schalij I,Wiesmeijer KC,Tura-Ceide O,Vonk Noordegraaf A,de Man FS,Bogaard HJ,Goumans MJ</p> | <p>Year<br/>2020</p> <p>Species<br/>Human</p> <p>Dilution<br/>1:1000</p> |

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Immunohistochemistry (2)

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|--|--|
| <p>Cells</p> <p><b>The BMP Receptor 2 in Pulmonary Arterial Hypertension: When and Where the Animal Model Matches the Patient.</b></p> <p>"MA5-15827 was used in Western Blotting to analyse the BMPR2 expression and activity in the lungs of rats with experimentally induced PAH and compared this to the BMPR2 expression and activity in the lungs of PAH patients."</p> <p>Authors: Happé C,Kurakula K,Sun XQ,da Silva Goncalves Bos D,Rol N,Guignabert C,Tu L,Schalij I,Wiesmeijer KC,Tura-Ceide O,Vonk Noordegraaf A,de Man FS,Bogaard HJ,Goumans MJ</p> | <p>Year<br/>2020</p> <p>Species<br/>Human</p> <p>Dilution<br/>1:1000</p> |
| <p>Journal of virology</p> <p><b>The Wnt Signaling Pathway Is Differentially Expressed during the Bovine Herpesvirus 1 Latency-Reactivation Cycle: Evidence That Two Protein Kinases Associated with Neuronal Survival, Akt3 and BMPR2, Are Expressed at Higher Levels during Latency.</b></p> <p>"Published figure using BMPR2 monoclonal antibody (Product # MA5-15827) in Immunofluorescence"</p> <p>Authors: Workman A,Zhu L,Keel BN,Smith TPL,Jones C</p>   | <p>Year<br/>2018</p> <p>Species<br/>Bovine</p> <p>Dilution<br/>1:400</p> |

More applications with references on thermofisher.com

- IHC (P) (1)
- ELISA (1)
- IP (1)

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