

BMPR2 Polyclonal Antibody

Catalog Number PA5-21437

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	Dilution * 1:500-1:3,000
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Recombinant fragment corresponding to a region within amino acids 667 and 951 of BMPR2 (Uniprot ID#Q13873)		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.17 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA		
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: HUVEC. Predicted reactivity: Mouse (92%), Rat (92%), Pig (92%), Chicken (86%), Sheep (93%), Rhesus Monkey (98%), Bovine (93%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

BMPR2 is a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs that are involved in endochondral bone formation and embryogenesis. The loss of interaction and lack of phosphorylation of TCTEL1 by BMPR2 may contribute to the pathogenesis of primary pulmonary hypertension (PPH) and BMPR2 also plays an essential role in human T-cell differentiation. 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 receptors of about 50-55 kDa and type II receptors of about 70-80 kDa. 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, both familial and fenfluramine-associated, and with pulmonary venoocclusive disease.

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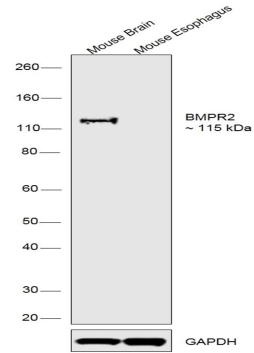
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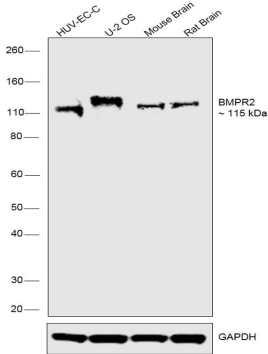
BMPR2 Antibody (PA5-21437)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of BMPR2 was observed in Mouse Adipose when compared to Mouse Esophagus using BMPR2 Polyclonal Antibody (Product # PA5-21437) in western blot. {RE}



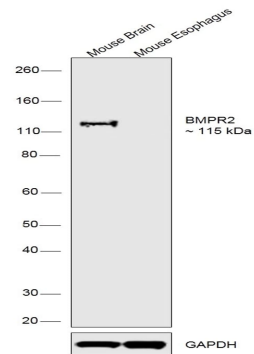
BMPR2 Antibody (PA5-21437) in WB

Western blot was performed using Anti-BMPR2 Polyclonal Antibody (Product # PA5-21437) and a 115 kDa band corresponding to BMPR2 was observed across the cell lines and tissues tested. Whole cell extracts (30 µg lysate) of HUV-EC-C (Lane 1), U-2 OS (Lane 2), tissue extracts (30 µg lysate) of Mouse Brain (Lane 3) and Rat Brain (Lane 4) were electrophoresed using Novex® 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 (1:500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



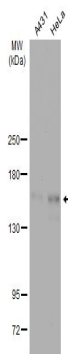
BMPR2 Antibody (PA5-21437) in WB

Western blot was performed using Anti-BMPR2 Polyclonal Antibody (Product # PA5-21437) and a 115 kDa band corresponding to BMPR2 was observed in Mouse Brain when compared to Mouse Esophagus which is reported to be negative model for BMPR2 expression. Tissue extracts (30 µg lysate) of Mouse Brain (Lane 1) and Mouse Esophagus (Lane 2) were electrophoresed using Novex® 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 (1:500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 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 (PA5-21437) in WB

Western Blot analysis of BMPR2 was performed by separating 30 µg of various whole cell extracts by 5% SDS-PAGE. Proteins were transferred to a membrane and probed with a BMPR2 Polyclonal Antibody (Product # PA5-21437) at a dilution of 1:500 and a HRP-conjugated anti-rabbit IgG secondary antibody.



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