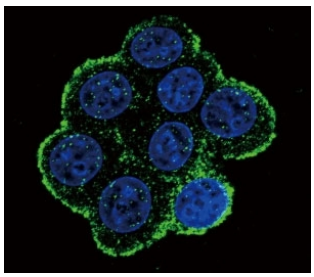
BMPR1A Antibody (F47724)

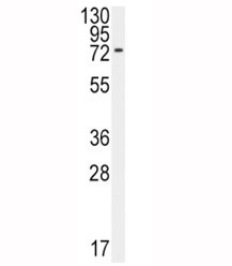
Catalog No.	Formulation	Size
F47724-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F47724-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P36894
Applications	Western blot: 1:1000 Immunofluorescence: 1:10-1:50
Limitations	This BMPR1A antibody is available for research use only.



Confocal immunofluorescent analysis of BMPR1A antibody with 293 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).



Western blot analysis of BMPR1A antibody and 293 lysate

Description

The bone morphogenetic protein (BMP) receptors belong to a family of transmembrane serine/threonine kinases including the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. Both activins and TGF-beta transduce their signals through the formation of heteromeric complexes with 2 different types of serine (threonine) kinase receptors. 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. BMP receptors are highly expressed in bone, skeletal muscle, heart and liver tissue. BMPRs play a crucial role during development as mutations or deletions to the BMPR genes can cause juvenile polyposis, disrupt normal dorsal/ventral patterning during limb development, and may be a factor in the progession of Cowden-like syndrome. Germline mutations in the BMPR2 gene encoding bone morphogenetic protein (BMP) type II receptor (BMPR-II) have been reported in patients with primary pulmonary hypertension (PPH).

Application Notes

Titration of the BMPR1A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 21-51 from the human protein was used as the immunogen for this BMPR1A antibody.

Storage

Aliquot the BMPR1A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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