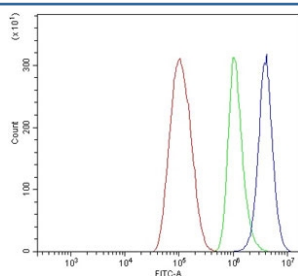


BMPR2 Antibody (RQ6453)

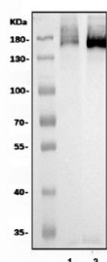
Catalog No.	Formulation	Size
RQ6453	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13873
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This BMPR2 antibody is available for research use only.



Flow cytometry testing of human ThP-1 cells with BMPR2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= BMPR2 antibody.



Western blot testing of 1) rat heart and 2) mouse heart tissue lysate with BMPR2 antibody. Predicted molecular weight: ~115 kDa (precursor), ~75 kDa (mature), ~150 kDa (dimer).

Description

Bone morphogenetic protein receptor type II or BMPR2 is a serine/threonine receptor kinase. 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 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.

Application Notes

Optimal dilution of the BMPR2 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids Q28-L1038) was used as the immunogen for the BMPR2 antibody.

Storage

After reconstitution, the BMPR2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.