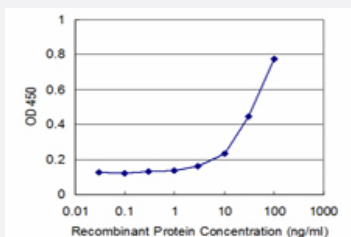


BMPR2 monoclonal antibody (M01), clone 4A2

Catalog # H00000659-M01

Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BMPR2 is approximately 3ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant BMPR2.
Immunogen	BMPR2 (NP_001195.2, 939 a.a. ~ 1037 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	NSLDLSATNVLDGSSIQIGESTQDGKSGSGEKIKRVPYSLKRWRPSTWISTESLDCEVNNNGSNRAVHSKSSTAVYLAEGGTATTMVSKDGMNC
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (95)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BMPR2 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — BMPR2

Entrez GeneID [659](#)

GeneBank Accession# [NM_001204](#)

Protein Accession# [NP_001195.2](#)

Gene Name BMPR2

Gene Alias BMPR-II, BMPR3, BMR2, BRK-3, FLJ41585, FLJ76945, PPH1, T-ALK

Gene Description bone morphogenetic protein receptor, type II (serine/threonine kinase)

Omim ID [178600 265450 600799](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of trans membrane 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. [provided by RefSeq]

Other Designations BMP type II receptor|bone morphogenetic protein receptor type II|bone morphogenetic protein receptor type-2|primary pulmonary hypertension 1|serine/threonine kinase|type II activin receptor-like kinase|type II receptor for bone morphogenetic protein-4

Pathway

- [Cytokine-cytokine receptor interaction](#)

- [TGF-beta signaling pathway](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Anemia](#)
- [Anoxia](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Heart Diseases](#)
- [Hypertension](#)
- [Liver Cirrhosis](#)
- [Microsatellite Instability](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Scleroderma](#)
- [Stomach Neoplasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)

- [Tricuspid Valve Insufficiency](#)