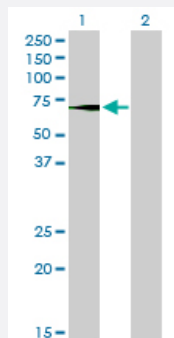


BMPR1B monoclonal antibody (M01), clone 2F3

Catalog # H00000658-M01

Size 100 ug

Applications

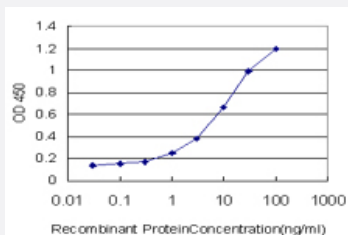


Western Blot (Transfected lysate)

Western Blot analysis of BMPR1B expression in transfected 293T cell line by BMPR1B monoclonal antibody (M01), clone 2F3.

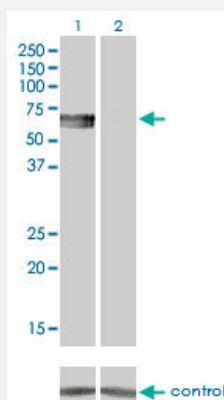
Lane 1: BMPR1B transfected lysate (56.9 kDa).

Lane 2: Non-transfected lysate.



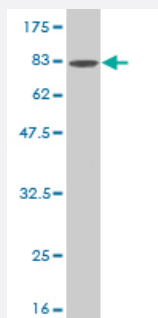
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BMPR1B is approximately 0.1 ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of BMPR1B over-expressed 293 cell line, cotransfected with BMPR1B Validated Chimera RNAi (Cat # H00000658-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with BMPR1B monoclonal antibody (M01) clone 2F3 (Cat # H00000658-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (79.53 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant BMPR1B.
Immunogen	BMPR1B (AAH47773, 14 a.a. ~ 502 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KKEDGESTAPTPRPKVLRCCKHHCPEDSVNNICSTDGYCFTMIEEDDSGLPVVTSGCLGLEGS DFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPLKNRDFVDGPIHHRALLISVTVCSTLLVLILF CYFRYKRQETRPYSIGLEQDETYPPGESLRDLIEQSQSSGSGSGLPLLQRTIAKQIQMVKQIGK GRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLI TDYHENGSLYDYLKSTTLDAKSMLKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGT CCIADLGLAVKFISDTNEVDIPPNTRVGTRKRYMPPEVLDESINRNHFQSYIMADMYSFGLILWEVAR RCVSGGVVEEYQLPYHDLVPSDPSYEDMREIVCIKKLRPSFPNRWSSDECLRQMGKLMTECWAH NPASRLTALRVKKTFAKMSESQDIKL
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (79.53 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of BMPR1B expression in transfected 293T cell line by BMPR1B monoclonal antibody (M01), clone 2F3.

Lane 1: BMPR1B transfected lysate(56.9 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BMPR1B is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of BMPR1B over-expressed 293 cell line, cotransfected with BMPR1B Validated Chimera RNAi (Cat # H00000658-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with BMPR1B monoclonal antibody (M01) clone 2F3 (Cat # H00000658-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — BMPR1B

Entrez GeneID [658](#)

GeneBank Accession# [BC047773](#)

Protein Accession# [AAH47773](#)

Gene Name BMPR1B

Gene Alias ALK-6, ALK6, CDw293

Gene Description bone morphogenetic protein receptor, type IB

Omim ID [112600 603248](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 2 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. [provided by RefSeq]

Other Designations

OTTHUMP00000161622|activin receptor-like kinase 6|serine/threonine receptor kinase

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [TGF-beta signaling pathway](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)