

BMPR2 Antibody (clone 3F6)
Mouse Monoclonal Antibody
Catalog # ALS15933**Specification**

BMPR2 Antibody (clone 3F6) - Product Information

Application	IHC, WB, IF
Primary Accession	Q13873
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Calculated MW	115kDa KDa

BMPR2 Antibody (clone 3F6) - Additional Information**Gene ID** 659**Other Names**

Bone morphogenetic protein receptor type-2, BMP type-2 receptor, BMPR-2, 2.7.11.30, Bone morphogenetic protein receptor type II, BMP type II receptor, BMPR-II, BMPR2, PPH1

Target/Specificity

Human BMPR-II / BMPR2

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

BMPR2 Antibody (clone 3F6) is for research use only and not for use in diagnostic or therapeutic procedures.

BMPR2 Antibody (clone 3F6) - Protein Information**Name** BMPR2**Synonyms** PPH1**Function**

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Can also mediate signaling through the activation of the p38MAPK cascade (PubMed:12045205). Binds to BMP7, BMP2 and, less efficiently, BMP4. Binding is weak but enhanced by the presence of type I receptors for BMPs. Mediates induction of adipogenesis by GDF6.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Highly expressed in heart and liver.

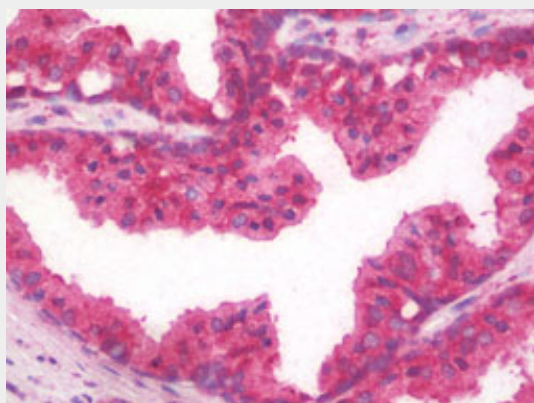
Volume

50 μ l

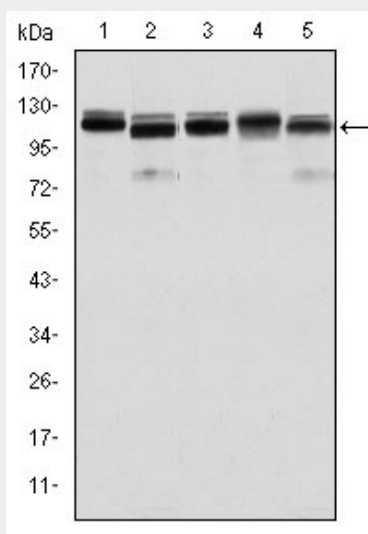
BMPR2 Antibody (clone 3F6) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

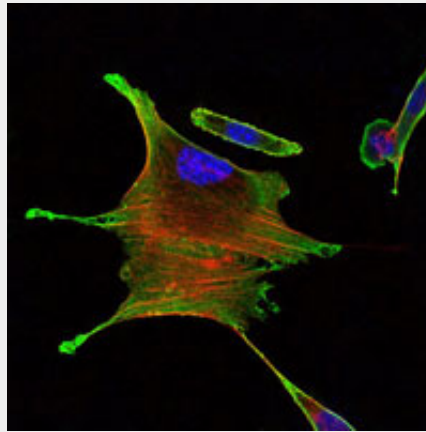
BMPR2 Antibody (clone 3F6) - Images

Anti-BMPR2 antibody IHC staining of human prostate.



Western blot using BMPR2 mouse monoclonal antibody against HeLa (1), A431 (2), NIH/3T3 (3),

Cos7...



Immunofluorescence of Eca109 cells using BMPR2 mouse monoclonal antibody (green).

BMPR2 Antibody (clone 3F6) - Background

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Binds to BMP-7, BMP-2 and, less efficiently, BMP-4. Binding is weak but enhanced by the presence of type I receptors for BMPs.

BMPR2 Antibody (clone 3F6) - References

Liu F.,et al.Mol. Cell. Biol. 15:3479-3486(1995).
Rosenzweig B.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:7632-7636(1995).
Nohno T.,et al.J. Biol. Chem. 270:22522-22526(1995).
Kawabata M.,et al.J. Biol. Chem. 270:5625-5630(1995).
Hillier L.W.,et al.Nature 434:724-731(2005).