

BMP4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1340a

Product Information

Application	WB, E
Primary Accession	P12644
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	10F4B4
Isotype	IgG1
Calculated MW	46555 Da
Description	The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. BMPs (bone morphogenetic proteins) belong to the TGF beta superfamily of structurally related signaling proteins. Members of this superfamily are widely represented throughout the animal kingdom and have been implicated in a variety of developmental processes. Proteins of the TGF beta superfamily are disulfide-linked dimers composed of two 12-15 kDa polypeptide chains. As implied by their name, BMPs initiate, promote and regulate bone development, growth, remodeling and repair. Smad1 translocation to the nucleus is observed after the addition of BMP4 (also designated BMP2B), suggesting that BMP4 may play a role in activation of the Smad pathway. BMP is secreted into the extracellular matrix.
Immunogen	Purified recombinant fragment of human BMP4 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Other Names	Bone morphogenetic protein 4, BMP-4, Bone morphogenetic protein 2B, BMP-2B, BMP4, BMP2B, DVR4
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BMP4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

References

1. Genomics. 1995 Jun 10;27(3):559-60. 2. DNA Seq. 1995;5(5):273-5. 3. J Bone Miner Res. 2009 Dec;24(12):2039-49. 4. Stem Cells Dev. 2009 Nov;18(9):1283-92.

Images

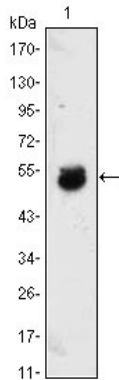


Figure 1: Western blot analysis using BMP4 mouse mAb against BMP4-hIgGFc transfected HEK293 cell lysate.

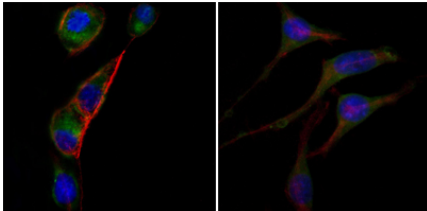


Figure 2: Immunofluorescence analysis of PC-3 (left) and SK-BR-3 (right) cells using anti-GOT2 mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

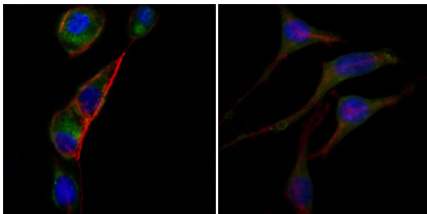


Figure 2: Immunofluorescence analysis of PC-3 (left) and SK-BR-3 (right) cells using anti-GOT2 mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.