

Summary

Production Name	BMP4 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,ICC,FC,ELISA
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	BMP4
Alternative Names	ZYME; BMP2B; OFC11; BMP2B1; MCOPS6
Gene ID	652.0
SwissProt ID	P12644.Purified recombinant fragment of human BMP4 (AA: 277-408) expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,ICC:1:100-1:500,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	46.5kDa

Background

Product Name: BMP4 Mouse Monoclonal Antibody
Catalog #: AMM81585

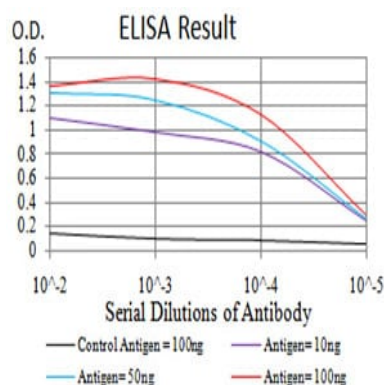


The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein.

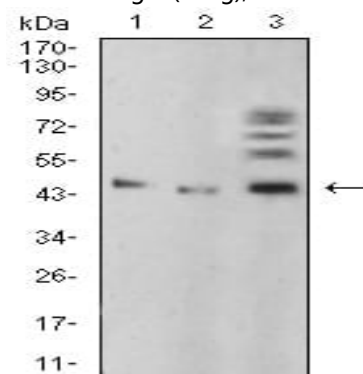
Research Area

TGF-beta signaling pathway

Image Data

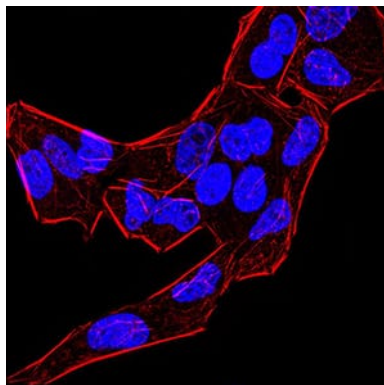


Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);

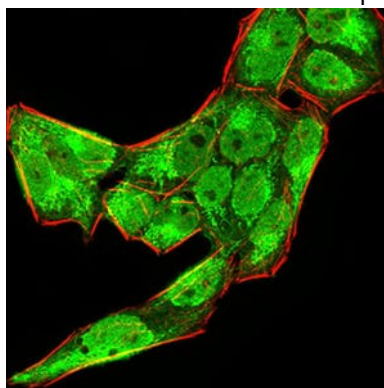


Western blot analysis using BMP4 mouse mAb against A549 (1), HepG2 (2), and C6 (3) cell lysate.

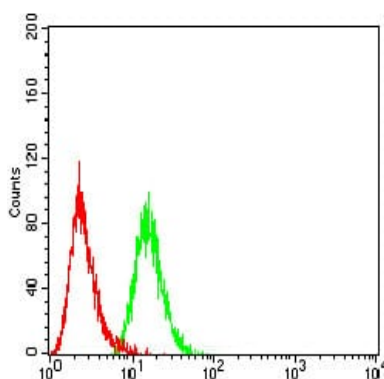
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Immunofluorescence analysis of Hela cells using BMP4 mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



Immunofluorescence analysis of Hela cells using BMP4 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of Hela cells using BMP4 mouse mAb (green) and negative control (red).

Note

For research use only.