

Product Name: BMP4 Rabbit Monoclonal Antibody
Catalog #: AMRe85355



Summary

Production Name	BMP4 Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal antibody
Host	Rabbit
Application	WB,IP,ICC
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
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 TBS with 0.05% sodium azide, 0.05% protective protein and 50% glycerol.
Purification	Affinity Purification

Immunogen

Gene Name	BMP4
Alternative Names	BMP4; BMP2B; DVR4; Bone morphogenetic protein 4; BMP-4; Bone morphogenetic protein 2B; BMP-2B
Gene ID	652.0
SwissProt ID	P12644.A synthetic peptide of human BMP4

Application

Dilution Ratio	WB:1:500-1:1000,IP:1:10-1:20,ICC:1:50-1:200
Molecular Weight	Calculated MW: 47 kDa; Observed MW: 47 kDa

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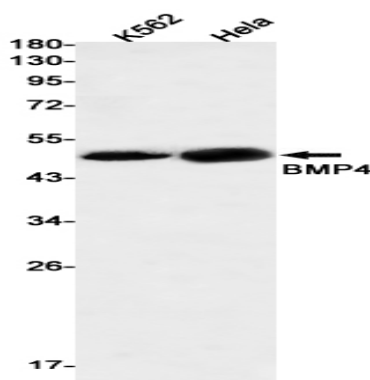
Background

Bone morphogenetic proteins (BMPs) were first identified as molecules that can induce ectopic bone and cartilage formation. BMPs belongs to the TGF- β superfamily, playing many diverse functions during development. BMPs are synthesized as precursor proteins and then processed by cleavage to release the c-terminal mature BMP. BMPs initiate signaling by binding to a receptor complex containing type I and type II serine/threonine receptor kinases that then phosphorylate Smad (mainly Smad1, 5 and 8), resulting the translocation of Smad into the nucleus. BMP was also reported to activate MAPK pathways in some systems.

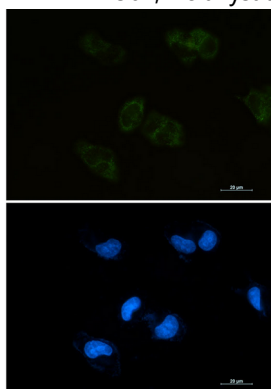
Research Area

TGF-beta signaling pathway

Image Data



Western blot analysis of BMP4 in K562, HeLa lysates using BMP4 antibody.



Immunocytochemistry analysis of BMP4 (green) in HEPG2 using BMP4 antibody, and DAPI (blue).

Note

For research use only.