

DATASHEET

BMP7 Mouse Monoclonal Antibody(C2557)

CAT. NO. AMA02169

KEY FEATURES

Target	BMP7	Source / Host	Mouse
Reactivity	Human, Mouse	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Growth factor of the TGF-beta superfamily that plays important role in various biological processes, including embryogenesis, hematopoiesis, neurogenesis and skeletal morphogenesis . Initiates the canonical BMP signaling cascade by associating with type I receptor ACVR1 and type II receptor ACVR2A . Once all three components are bound together in a complex at the cell surface, ACVR2A phosphorylates and activates ACVR1. In turn, ACVR1 propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes . For specific functions such as growth cone collapse in developing spinal neurons and chemotaxis of monocytes, also uses BMP2 as type II receptor .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal to BMP7
Specificity	Recognizes endogenous levels of BMP7 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human BMP7 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 49 kD; Observed: 70 kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	OP1; Bone morphogenetic protein 7; BMP-7; Osteogenin 1; OP-1; Eptotermin alfa
Gene Symbol	BMP7
Entrez Gene	655(Human)
SwissProt	P18075(Human); P23359(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

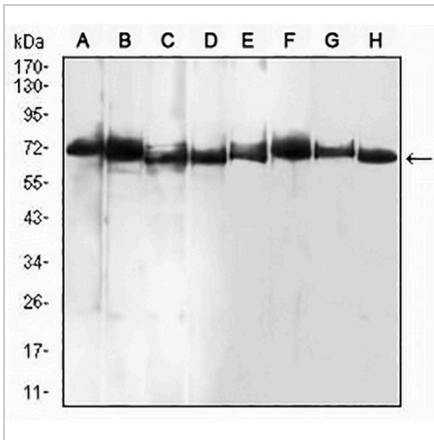
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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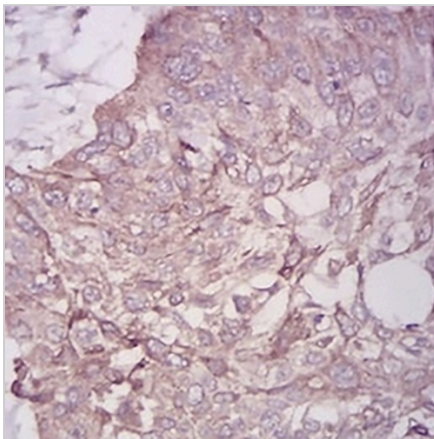
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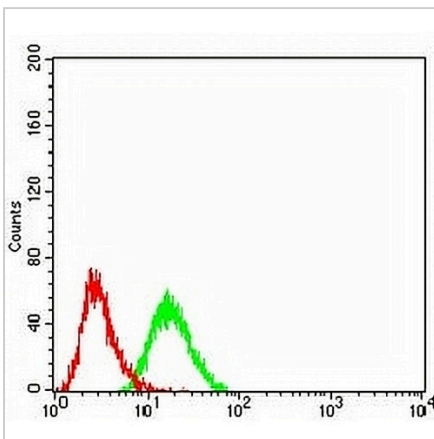
DATA



Western blot analysis of BMP7 expression in Raw264.7 (A), A549 (B), Jurkat (C), PC3 (D), HEK293 (E), Jurkat (F), NIH/3T3 (G), Hela (H) whole cell lysates. (Predicted band size: 49 kD; Observed band size: 70 kD)



Immunohistochemical analysis of BMP7 staining in human esophageal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HEK293 cells using Anti-BMP7 Antibody (green) and negative control (red).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.