

KD-Validated Anti-Bone morphogenetic protein 6 Rabbit Monoclonal Antibody Rabbit monoclonal antibody

Catalog # AGI2332

Specification

KD-Validated Anti-Bone morphogenetic protein 6 Rabbit Monoclonal Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P22004
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 57 kDa ; Observed, 42 kDa KDa
Gene Name	BMP6
Aliases	BMP6; Bone Morphogenetic Protein 6;
	VGR1; VGR; Vegetal Related Growth Factor
	(TGFB-Related); VG-1-Related Protein;
	VG-1-R; BMP-6; VGR-1; IO
Immunogen	A synthesized peptide derived from human BMP6

KD-Validated Anti-Bone morphogenetic protein 6 Rabbit Monoclonal Antibody -Additional Information

Gene ID 654 Other Names Bone morphogenetic protein 6, BMP-6, VG-1-related protein, VG-1-R, VGR-1, BMP6, VGR

KD-Validated Anti-Bone morphogenetic protein 6 Rabbit Monoclonal Antibody - Protein Information

Name BMP6

Synonyms VGR

Function

Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes including cartilage and bone formation (PubMed:31019025). Also plays an important role in the regulation of HAMP/hepcidin expression and iron metabolism by acting as a ligand for hemojuvelin/HJV (PubMed:26582087). Also acts to promote expression of HAMP, potentially via the interaction with its receptor BMPR1A/ALK3 (PubMed:30097509, PubMed:31800957). Initiates the canonical BMP signaling cascade by associating with type I receptor ACVR1 and type II receptor ACVR2B (PubMed:<a href="http://www.uniprot.org/citations/18070108""

target="_blank">18070108). 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. Can also signal through non-canonical pathway such as TAZ-Hippo signaling cascade to modulate VEGF signaling by regulating VEGFR2 expression (PubMed:33021694).

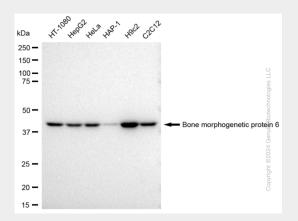
Cellular Location Secreted.

KD-Validated Anti-Bone morphogenetic protein 6 Rabbit Monoclonal Antibody - Protocols

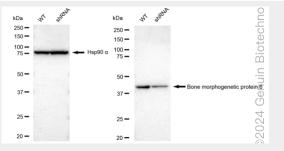
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

KD-Validated Anti-Bone morphogenetic protein 6 Rabbit Monoclonal Antibody - Images



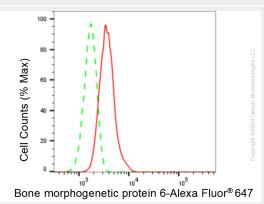
Western blotting analysis using anti-Bone morphogenetic protein 6 antibody (Cat#AGI2332). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Bone morphogenetic protein 6 antibody (Cat#AGI2332, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



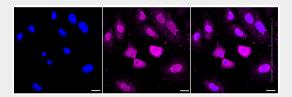
Western blotting analysis using anti-Bone morphogenetic protein 6 antibody (Cat#AGI2332). Bone morphogenetic protein 6 expression in wild type (WT) and Bone morphogenetic protein 6 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Bone morphogenetic protein 6 antibody (Cat#AGI2332,



1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Bone morphogenetic protein 6 expression in H9c2 cells using Bone morphogenetic protein 6 antibody (Cat#AGI2332, 1:2,000). Green, isotype control; red, Bone morphogenetic protein 6.



Immunocytochemical staining of H9c2 cells with Bone morphogenetic protein 6 antibody (Cat#AGI2332, 1:1,000). Nuclei were stained blue with DAPI; Bone morphogenetic protein 6 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.