

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

Rabbit monoclonal antibody

Catalog # AGI2332

Product Information

Application	WB, FC, ICC
Primary Accession	P22004
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3705
Calculated MW	57226
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

Additional Information

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

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: 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.

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