
Product Name: KD-Validated Bone Morphogenetic Protein 6 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVAAb00233**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 57.2kDa

Antigen Information

Gene Name	BMP6
Alternative Names	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
Gene ID	654.0
SwissProt ID	P22004
Immunogen	A synthesized peptide derived from human BMP6

Background

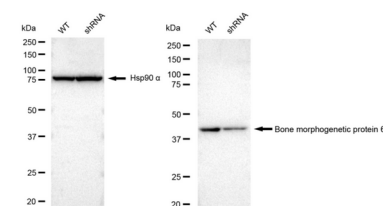
This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate

gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates a wide range of biological processes including iron homeostasis, fat and bone development, and ovulation. Differential expression of this gene may be associated with progression of breast and prostate cancer. Mutations in this gene may be associated with iron overload in human patients. [provided by RefSeq, Jul 2016]

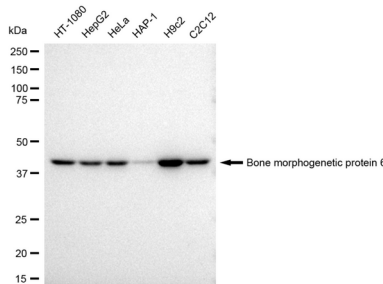
Research Area

Signal Transduction, Cell Biology, Stem Cells

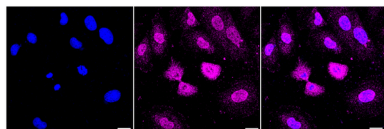
Image Data



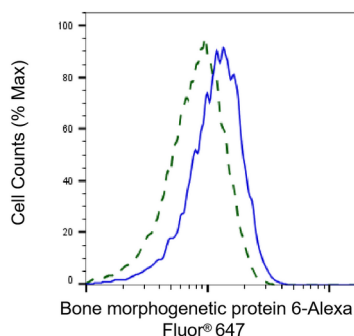
Western blotting analysis using bone morphogenetic protein 6 antibody (KVA00233). Bone morphogenetic protein 6 expression in wild type (WT) and bone morphogenetic protein 6 (BMP6) shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with bone morphogenetic protein 6 antibody (KVA00233, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



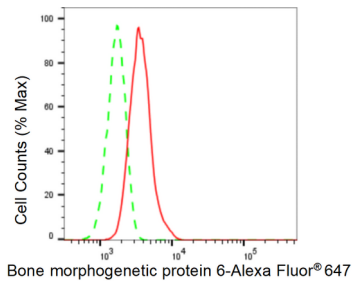
Western blotting analysis using Bone morphogenetic protein 6 antibody (KVA00233). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Bone morphogenetic protein 6 antibody (KVA00233, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with Bone morphogenetic protein 6 antibody (KVA00233, 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.



Validation of Bone morphogenetic protein 6 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Bone morphogenetic protein 6 antibody (KVA00233, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Bone morphogenetic protein 6 expression in H9c2 cells using Bone morphogenetic protein 6 antibody (KVA00233, 1:2,000). Green, isotype control; red, Bone morphogenetic protein 6.