

Bone Morphogenetic Protein 6 (BMP6)

Catalogue no.:	Q33 and Q34
Clone name:	B8 and H1
Product:	VHH directed against Bone Morphogenetic Protein 6
Target:	Bone Morphogenetic Proteins (BMPs) are TGF- β -like secreted signaling molecules that play important roles in embryogenesis, tissue morphogenesis, cell differentiation and migration, and tumorigenesis. ¹ BMP6, also known as Vgr-1 (UniProtKB P22004) is produced as an 46 kDa precursor which after cleavage yield an 18 kDa mature BMP6 protein that is biologically active as a disulfide-linked homodimer or heterodimer with BMP2. ² BMP6 binds and activates type I (ActR-IA/ALK-2 and BMPR-IA/ALK-3) and type II (Activin RIIA and BMPR-II) serine/threonine kinase receptors. ³ BMP-6 induces the expression of Noggin and is subsequently antagonized by Noggin. For tissue regeneration, BMP-6 can promote osteoblast differentiation from mesenchymal stem cells and chondrocyte maturation. ⁴
Source:	Recombinant monoclonal VHH (<i>Llama glama</i>), purified from <i>S.cerevisiae</i> using affinity chromatography. Immunization with recombinant BMP6. Phage-display selection on immobilized BMP6 with total elution.
Specificity:	Human BMP6.
Formulation:	0.2 μ m filtered solution in PBS.
Storage:	Shipped on blue ice. Store at 4°C or -20°C (aliquots). Addition of 0.02% sodiumazide is optional.
Applications:	ELISA

Products:

Cat. No.	Target	Tag	Label
Q33/Q34	BMP6	Tagless	No label
Q33c/Q34c	BMP6	C-direct	No label
Q33c/Q34c-lab	BMP6	C-direct	Biotin / NOTA / HiLyte488 / IRDye800CW

References:

- [Hogan, BL.](#), (1996) Genes Dev 10:1580-1594
- [Israel et al.](#), (1996) Growth Factors 13:291-300
- [Hong et al.](#), (2009) Immunology 128:e442-450
- [Lavery et al.](#), (2dh008 J Biol Chem 283:20948-20958