

Bone Morphogenetic Protein 7 (BMP7)

Catalogue no.:	Q31 and Q32
Clone name:	A1 and G7
Product:	VHH directed against Bone Morphogenetic Protein 7
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 BMP7, also known as osteogenic protein 1 (OP-1) (UniProtKB P18075) is produced as a 49 kDa precursor that, upon cleavage, results in a 139 amino acid mature BMP7 protein. ² Mature BMP7 shares 75% sequence homology with those of BMP5 and BMP6. ² BMP7 acts as homodimers or heterodimers with BMP2 or BMP4. ³ BMP-7 binds and activates the type 1 receptors ActR-IA, BMPR-IA, and BMPR-IB and the type 2 receptors ActR-IIA, ActR-IIB, and BMPR-II. ⁴ For tissue regeneration, BMP-7 can promote bone formation and nephron development.
Source:	Recombinant monoclonal VHH (<i>Llama glama</i>), purified from <i>S.cerevisiae</i> using affinity chromatography. Immunization with recombinant BMP7. Phage-display selection on immobilized BMP7 with total elution.
Specificity:	Human BMP7.
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
Q31/Q32	BMP7	Tagless	No label
Q31c/Q32c	BMP7	C-direct	No label
Q31c/Q32c-lab	BMP7	C-direct	Biotin / NOTA / HiLyte488 / IRDye800CW

References:

- [Hogan, BL.](#), (1996) Genes Dev 10:1580-1594
- [Ozkaynak et al.](#), (1990) EMBO J 9:2085-2093
- [Israel et al.](#), (1996) Growth Factors 13:291-300
- [Yeh LC.](#), (2010) Int J Biomed Sci 6:176-181