

Anti-BMP6 Reference Antibody (Lilly patent anti-BMP6)

Catalog # APR11285

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P22004
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP-FALA-noK
Calculated MW	57226

Additional Information

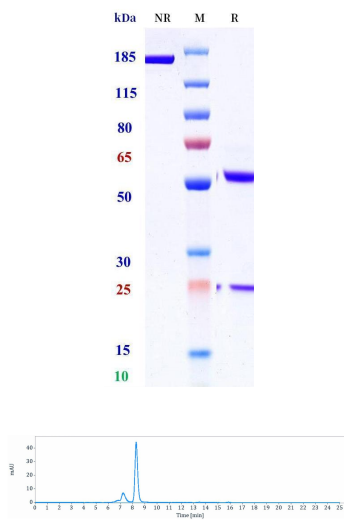
Target/Specificity	BMP6
Expression system	CHO

Protein Information

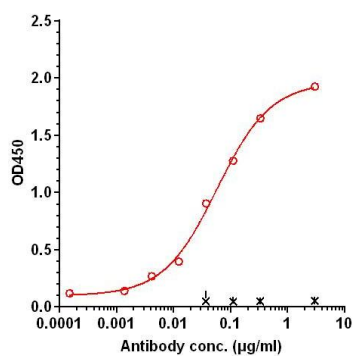
Name	BMP6
Synonyms	VGR
Function	Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes including cartilage and bone formation (PubMed:31019025). Also plays an important role in the regulation of HAMP/hepcidin expression and iron metabolism by acting as a 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.

Images

Anti-BMP6 Reference Antibody (Lilly patent anti-BMP6) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-BMP6 Reference Antibody (Lilly patent anti-BMP6) is 98.81%, determined by SEC-HPLC.



Immobilized hu-BMP6-his at 2 μg/mL can bind Lilly patent anti-BMP6, EC₅₀= 0.05780 μg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.