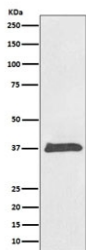


BMP2 Antibody / Bone morphogenetic protein 2 [clone AOHD-2] (RQ5386)

Catalog No.	Formulation	Size
RQ5386	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

[Bulk quote request](#)

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AOHD-2
Purity	Affinity purified
UniProt	P12643
Applications	Western Blot : 1:500-1:2000
Limitations	This BMP2 antibody is available for research use only.



BMP2 Antibody Human HeLa Cell WB. Western blot analysis of human HeLa cell lysate using BMP2 Antibody demonstrates a prominent immunoreactive band at approximately 35-37 kDa. Although the mature BMP2 monomer is expected at approximately 13-14 kDa, Bone Morphogenetic Protein 2 (BMP2) is synthesized as a larger precursor protein that undergoes proteolytic processing and maturation. The observed molecular weight is therefore consistent with detection of precursor or partially processed BMP2 species. BMP2 is a member of the TGF-beta superfamily and functions as a key osteogenic growth factor involved in skeletal development, tissue regeneration, cellular differentiation, and morphogenetic signaling pathways.

Description

BMP2 Antibody specifically detects Bone morphogenetic protein 2 protein. The BMP2 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 preprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which

plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients. [RefSeq]

Explore our [BMP2 Antibody / Osteogenic Growth Factor Antibody](#) page for additional validation data and applications involving skeletal development, osteogenesis, and tissue regeneration.

Application Notes

Optimal dilution of the BMP2 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human BMP2 was used as the immunogen for the BMP2 antibody.

Storage

Store the BMP2 antibody at -20oC.