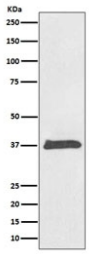
BMP2 Antibody / Bone morphogenetic protein 2 [clone AOHD-2] (RQ5386)

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 preproprotein 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.

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