

Anti-BMP3 Antibody

Rabbit polyclonal antibody to BMP3 Catalog # AP59486

Product Information

ApplicationWB, IHCPrimary AccessionP12645Other AccessionQ8BHE5

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW53372

Additional Information

Gene ID 651

Other Names BMP3A; Bone morphogenetic protein 3; BMP-3; Bone morphogenetic protein

3A; BMP-3A; Osteogenin

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human BMP3. The exact sequence is proprietary.

Dilution WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC

(1/100 - 1/200)

Format Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30%

glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name BMP3

Synonyms BMP3A

Function Growth factor of the TGF-beta superfamily that plays an essential role in

developmental process by inducing and patterning early skeletal formation and by negatively regulating bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentiation and ossification (PubMed:11138004, PubMed:15269709). Initiates signaling cascades by associating with type II receptor ACVR2B to activate SMAD2-dependent and SMAD-independent signaling cascades including TAK1 and JNK pathways

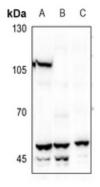
(PubMed:31665064).

Secreted.

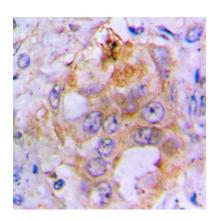
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BMP3. The exact sequence is proprietary.

Images



Western blot analysis of BMP3 expression in A549 (A), H446 (B), U2OS (C), mouse lung (D) whole cell lysates.



Immunohistochemical analysis of BMP3 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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