

BMP7

Reactivity:Human Mouse Rat

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:49kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human BMP7

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

prt

Synonym:

BMP7;OP-1 ;

Catalog #:A0697

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:655

Isotype:IgG

Swiss Prot:P18075

Purity:Affinity purification

For research use only.

Background:

Bone morphogenetic proteins (BMPs) were first identified as molecules that can induce ectopic bone and cartilage formation (1,2). BMPs belongs to the TGF- superfamily, playing many diverse functions during development (3). BMPs are synthesized as precursor proteins and then processed by cleavage to release the c-terminal mature BMP. BMPs initiate signaling by binding to a receptor complex containing type I and type II serine/threonine receptor kinases that then phosphorylate Smad (mainly Smad1, 5 and 8), resulting the translocation of Smad into the nucleus. BMP was also reported to activate MAPK pathways in some systems (3,4).BMP7, also known as osteogenic protein-1 (OP-1), is found to be upregulated in some cancer cells (5-7), and may play a role in cancer metastasis (7-9).

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