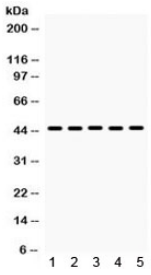
BMP4 Antibody (R31950)

Catalog No.	Formulation	Size
R31950	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P12644
Localization	Cytoplasmic, membrane
Applications	Western Blot : 0.1-0.5ug/ml ELISA : 0.1-0.5ug/ml (human and mouse protein tested); request BSA-free format for coating
Limitations	This BMP4 antibody is available for research use only.



Western blot testing of mouse 1) lung, 2) liver, 3) HEPA and human 4) HepG2, 5) HeLa lysate with BMP4 antibody. Predicted molecular weight: 54 kDa (precursor), 44 kDa (cleaved dimer), 23 kDa (cleaved monomer).

Description

Bone morphogenetic protein 4 is a protein that in humans is encoded by the BMP4 gene. It is found on chromosome 14q22-q23. The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral

osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein.

Application Notes

Optimal dilution of the BMP4 antibody should be determined by the researcher.

Immunogen

Amino acids SPKHHSQRARKKNKNCRRHSLYVDFSDVGWND of human BMP4 were used as the immunogen for the BMP4 antibody.

Storage

After reconstitution, the BMP4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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