

Basic Information

Product Name	Anti-BMP4 Antibody
Gene Name	BMP4
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ELISA(Cap)
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human BMP4 recombinant protein (Position: S293-R408). Human BMP4 shares 98.3% amino acid (aa) sequence identity with both mouse and rat BMP4.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	47 kDa
Dilution Ratios	Western blot (WB):1:500-2000 ELISA(Cap): 1:50-1:200

Storage

12 months from date of receipt, -20°C as supplied.

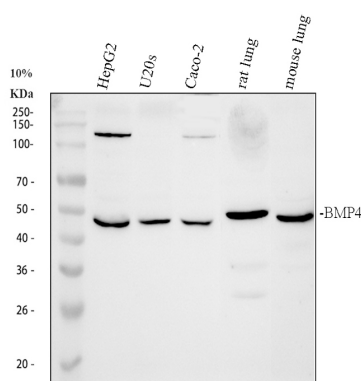
Background Information

Bone morphogenetic protein 4 is a protein that in humans is encoded by 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.

Reference

Anti-BMP4 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of BMP4 using anti-BMP4 antibody (A00321).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

Lane 2: human U2OS whole cell lysates,

Lane 3: human Caco-2 whole cell lysates,

Lane 4: rat lung tissue lysates,

Lane 5: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-BMP4 antigen

affinity purified polyclonal antibody (A00321) at a dilution of 1:1000

and probed with a goat anti-rabbit IgG-HRP secondary antibody

(Catalog # BA1054). The signal is developed using ECL Plus Western

Blotting Substrate (Catalog # AR1197). A specific band was detected

for BMP4 at approximately 47 kDa. The expected band size for BMP4

is at 47 kDa.