

# Product datasheet

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# ARG55523 anti-BMP4 antibody

Package: 100 μl Store at: -20°C

### Summary

Product Description Rabbit Polyclonal antibody recognizes BMP4

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name BMP4

Species Human

Immunogen Recombinant protein of Human BMP-4.

Conjugation Un-conjugated

Alternate Names BMP2B; BMP-4; OFC11; Bone morphogenetic protein 2B; BMP2B1; Bone morphogenetic protein 4;

MCOPS6; ZYME; BMP-2B

# **Application Instructions**

Predict Reactivity Note Rat

Application table Application Dilution

WB 1:500 - 1:2000

Application Note \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Positive Control Mouse liver

Observed Size ~ 47 kDa

## **Properties**

Form Liquid

**Purification** Affinity purification with immunogen.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

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#### Bioinformation

Database links <u>GeneID: 12159 Mouse</u>

GeneID: 652 Human

Swiss-port # P12644 Human

Swiss-port # P21275 Mouse

Gene Symbol BMP4

Gene Full Name bone morphogenetic protein 4

Background 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. [provided by RefSeq, Jul 2008]

Function Induces cartilage and bone formation. Also act in mesoderm induction, tooth development, limb

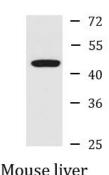
formation and fracture repair. Acts in concert with PTHLH/PTHRP to stimulate ductal outgrowth during embryonic mammary development and to inhibit hair follicle induction (By similarity). [UniProt]

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody;

Signaling Transduction antibody

Calculated Mw 47 kDa

#### **Images**



#### ARG55523 anti-BMP4 antibody WB image

Western blot: Mouse liver lysate stained with ARG55523 anti-BMP4 antibody.

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