

## Anti-BMP-4 Antibody (3R788)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3R788
Purification:	Affinity-chromatography

## Applications

Verified Activity:	1. Western Blot
	-Positive WB detected in: Hela whole cell lysate -All lanes: BMP4 antibody at 1:2000 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 47 kDa -Observed band size: 36-55 kDa
	2. Immunofluorescence staining of Hela cell with TMAH-00117 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 508-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).
Application:	ELISA,IF,WB
Recommended	WB:1:500-1:2000; IF:1:50-1:200.

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: Human BMP4
Antigen Species:	Human
Gene ID:	652
Uniprot ID:	P12644
Synonyms:	OFC11;MCOPS6;ZYME;BMP2B;BMP2B1;bone morphogenetic protein 4
Biology Area:	Cancer, Cardiovascular, Developmental biology, Signal transduction, Stem cells

## Research Background

Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes, including neurogenesis, vascular development, angiogenesis and osteogenesis. Acts in concert with PTHLH/PTHRP to stimulate ductal outgrowth during embryonic mammary development and to inhibit hair follicle induction. Initiates the canonical BMP signaling cascade by associating with type I receptor BMPR1A and type II receptor BMPR2. Once all three components are bound together in a complex at the cell surface, BMPR2 phosphorylates and activates

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BMPR1A. In turn, BMPR1A propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes. Can also signal through non-canonical BMP pathways such as ERK/MAP kinase, PI3K/Akt, or SRC cascades. For example, induces SRC phosphorylation which, in turn, activates VEGFR2, leading to an angiogenic response.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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