

产品货号: AMRe07598



### 产品概述 (Summary)

产品名称 (Production Name) BMP4 (16W18) Rabbit Monoclonal Antibody

描述 (Description) Recombinant rabbit monoclonal antibody

宿主 (Host) Rabbit

应用 (Application) WB,IHC,ICC/IF,FC,IP

种属反应性 (Reactivity) Human

## 产品性能 (Performance)

偶联物 (Conjugation) Unconjugated 修饰 (Modification) Unmodified

同种型 (Isotype) IgG

Monoclonal 克隆 (Clonality) 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New 储存溶液 (Buffer)

type preservative N and 0.05% protective protein.

Affinity purification 纯化方式 (Purification)

# 免疫原信息 (Immunogen)

基因名 (Gene Name) BMP4

BMP-2B; BMP-4; BMP2B; BMP2B1; bone morphogenetic protein 4; DVR4; 别名 (Alternative Names)

**ZYME** 

基因 ID (Gene ID) 652.0

蛋白 ID (SwissProt ID) P12644.A synthetic peptide of human BMP4

# 产品应用 (Application)

WB 1:2000-1:10000,IHC 1:20-1:100,ICC/IF 1:100-1:200,FC 1:20-1:100,IP 1:20-

稀释比 (Dilution Ratio) 1:50

47kDa 蛋白分子量 (Molecular Weight)

E-mail: order@enkilife.cn (销售) tech@enkilife.cn (技支持) Web: https://www.enkilife.cn Tel: 027-87002838 产品名称: BMP4 (16W18) Rabbit Monoclonal Antibody

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### 研究背景 (Background)

Bone morphogenetic proteins (BMPs) were first identified as molecules that can induce ectopic bone and cartilage formation. BMPs belongs to the TGF-β superfamily, playing many diverse functions during development. 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. Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes, including neurogenesis, vascular development, angiogenesis and osteogenesis (PubMed: <a href="http://www.uniprot.org/citations/31363885" target=" blank">31363885</a>). Acts in concert with PTHLH/PTHRP to stimulate ductal outgrowth during embryonic mammary development and to inhibit hair follicle induction (By similarity). Initiates the canonical BMP signaling cascade by associating with type I receptor BMPR1A and type II receptor BMPR2 (PubMed: <a href="http://www.uniprot.org/citations/25868050" target=" blank">25868050 </a>, PubMed: <a href="http://www.uniprot.org/citations/8006002" target=" blank">8006002</a>). Once all three components are bound together in a complex at the cell surface, BMPR2 phosphorylates and activates 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 (PubMed: <a href="http://www.uniprot.org/citations/25868050" target=" blank">25868050</a>, PubMed: <a href="http://www.uniprot.org/citations/29212066" target=" blank">29212066</a>). Can also signal through noncanonical BMP pathways such as ERK/MAP kinase, PI3K/Akt, or SRC cascades (PubMed: <a href="http://www.uniprot.org/citations/31363885" target=" blank">31363885</a>). For example, induces SRC phosphorylation which, in turn, activates VEGFR2, leading to an angiogenic response (PubMed: <a href="http://www.uniprot.org/citations/31363885" target=" blank">31363885</a>).

#### 研究领域(Research Area)

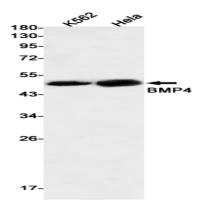
Cardiovascular; Angiogenesis; Growth Factors; TGF; Stem Cells; Signaling Pathways; TGF beta; Secreted; Developmental Biology; Organogenesis; Gut development; Gut specification; Nervous system development; Excretory system development; Kidney development

# 图片 (Image Data)

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Western blot detection of BMP4 in K562, Hela cell lysates using BMP4 antibody(1:500 diluted).

# 注意事项 (Note)

For research use only .

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