# BMP-1 Polyclonal Antibody

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| **Catalog No** | BYab-10703 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat |
| **Applications** | IHC;IF;ELISA |
| **Gene Name** | BMP1 PCOLC |
| **Protein Name** | Bone morphogenetic protein 1 (BMP-1) (EC 3.4.24.19) (Mammalian tolloid protein) (mTld) (Procollagen C-proteinase) (PCP) |
| **Immunogen** | Synthetic peptide from human protein at AA range: 131-180 |
| **Specificity** | The antibody detects endogenous BMP-1 |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Polyclonal, Rabbit,IgG |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | IHC-p 1:50-200, ELISA 1:10000-20000. IF 1:50-200 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | Bone morphogenetic protein 1 (BMP-1;EC 3.4.24.19;Mammalian tolloid protein;mTld;Procollagen C-proteinase;PCP) |
| **Observed Band** | |
| **Cell Pathway** | Golgi apparatus, trans-Golgi network . Secreted, extracellular space, extracellular matrix . Secreted . Co-localizes with POSTN in the Golgi. .; [Isoform BMP1-3]: Secreted . |
| **Tissue Specificity** | Ubiquitous. |
| **Function** | catalytic activity:Cleavage of the C-terminal propeptide at Ala-\|-Asp in type I and II procollagens and at Arg-\|-Asp in type III.,cofactor:Binds 1 zinc ion per subunit.,enzyme regulation:Activity is increased by the procollagen C-endopeptidase enhancer protein.,function:Cleaves the C-terminal propeptides of procollagen I, II and III. Induces cartilage and bone formation. May participate in dorsoventral patterning during early development by cleaving chordin (CHRD).,similarity:Belongs to the peptidase M12A family.,similarity:Contains 2 EGF-like domains.,similarity:Contains 5 CUB domains.,tissue specificity:Ubiquitous., |

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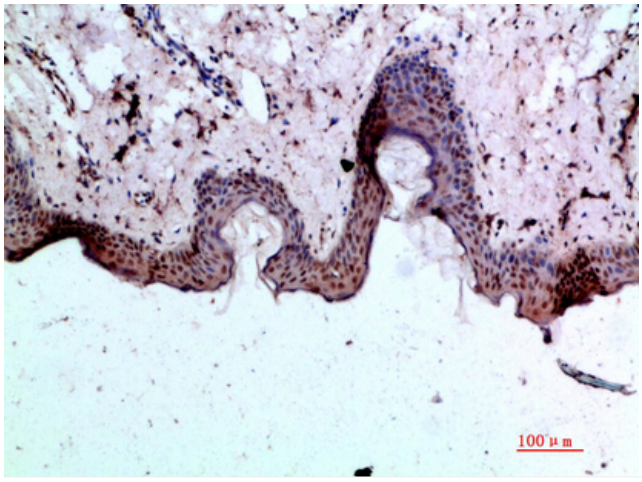
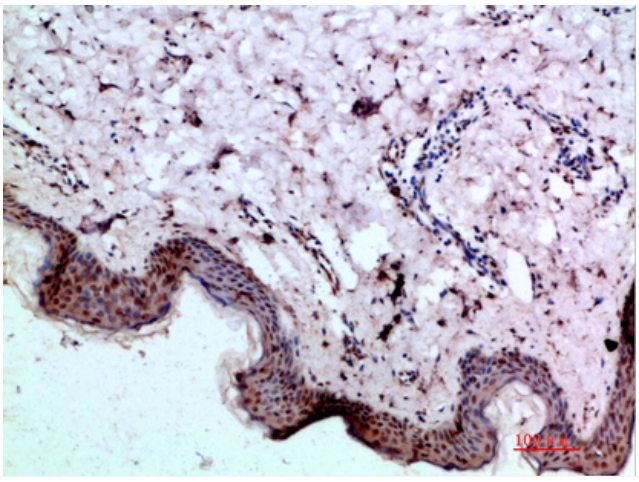
| **Background** | This gene encodes a protein that is capable of inducing formation of cartilage in vivo. Although other bone morphogenetic proteins are members of the TGF-beta superfamily, this gene encodes a protein that is not closely related to other known growth factors. This gene is expressed as alternatively spliced variants that share an N-terminal protease domain but differ in their C-terminal region. [provided by RefSeq, Aug 2008], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Immunohistochemical analysis of paraffin-embedded human-skin, antibody was diluted at 1:200



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