

## **BMP-10** Antibody

Rabbit Polyclonal Antibody Catalog # ABV11011

# **Specification**

## **BMP-10 Antibody - Product Information**

Application WB
Primary Accession O95393
Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 48047

# **BMP-10 Antibody - Additional Information**

**Gene ID 27302** 

Application & Usage Western blot analysis (0.5-4 μg/ml).

However, the optimal conditions should be determined individually. Recombinant human BMP-10 can be used as positive

control.

**Other Names** 

Bone Morphogenetic Protein 10, Bone Morphogenetic Protein-10

Target/Specificity

BMP-10

**Antibody Form** 

Liquid

**Appearance** 

Colorless liquid

### **Formulation**

 $100~\mu g$  (0.5 mg/ml) affinity purified rabbit anti-human BMP-10 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

### Handling

The antibody solution should be gently mixed before use.

**Reconstitution & Storage** 

-20 °C

**Background Descriptions** 

## **Precautions**

BMP-10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



### **BMP-10 Antibody - Protein Information**

#### Name BMP10

# **Function**

Required for maintaining the proliferative activity of embryonic cardiomyocytes by preventing premature activation of the negative cell cycle regulator CDKN1C/p57KIP and maintaining the required expression levels of cardiogenic factors such as MEF2C and NKX2-5. Acts as a ligand for ACVRL1/ALK1, BMPR1A/ALK3 and BMPR1B/ALK6, leading to activation of SMAD1, SMAD5 and SMAD8 transcription factors. Inhibits endothelial cell migration and growth. May reduce cell migration and cell matrix adhesion in breast cancer cell lines.

### **Cellular Location**

Secreted.

### **Tissue Location**

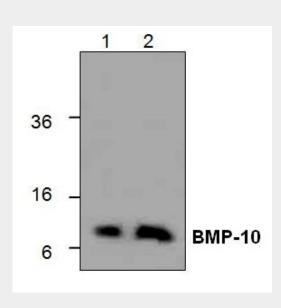
Detected in mammary epithelia (at protein level).

## **BMP-10 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### **BMP-10 Antibody - Images**



Western blot analysis of BMP-10 using recombinant human BMP-10.Lane 1: 50 ng;Lane 2: 100 ng





# **BMP-10 Antibody - Background**

BMPs (bone morphogenetic proteins) belong to the TGF- $\beta$  superfamily of structurally related signaling proteins. As implied by their name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. BMP-10 is essential for the proper development of the heart, but is not expressed until after cardiac patterning or looping is completed.