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# **Human BMP-8b antibody**

Catalog Number: ATGA0332

# **PRODUCT INFORMATION**

# Catalog number

ATGA0332

#### Clone No.

AT13E6

# **Product type**

Monoclonal Antibody

#### UnitProt No.

P34820

#### **NCBI Accession No.**

NP 001711

#### **Alternative Names**

Bone morphogenetic protein 8B, BMP8, OP2

# **PRODUCT SPECIFICATION**

### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human BMP8b (264-402aa) purified from E. coli

#### Isotype

IgG2a kappa

### **Purification Note**

By protein-A affinity chromatography

# **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

### **Description**

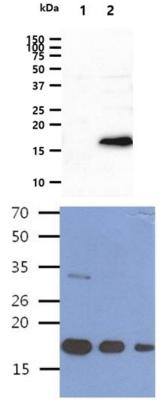
Bone morphogenic proteins (BMPs) are members of the TGF beta superfamily. BMPs are involved in the induction of cartilage and bone formation. Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis. BMP-8 is thought to be involved in early development, as detectable expression has not been found in adult organs. Two BMP-8 proteins exist, namely BMP-8A and BMP-8B (also designated OP-2), and are encoded by two distinct genes.

### **General References**

Ozkaynak E., et al. (1992) J Biol Chem. 267(35):25220-25227. Gregory SG., et al. (2006) Nature. 441(7091):315-321.

# **DATA**

## Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BMP8b antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: BMP8b transfected 293T cell lysate

The Recombinant BMP8b proteins (200, 100, 50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman BMP8bq antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

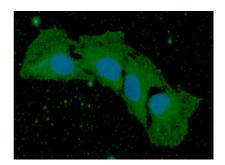
Immunocytochemistry/Immunofluorescence (ICC/IF)



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ICC/IF analysis of BMP8b in HaLe cells. The cell was stained with ATGA0332 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

