

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

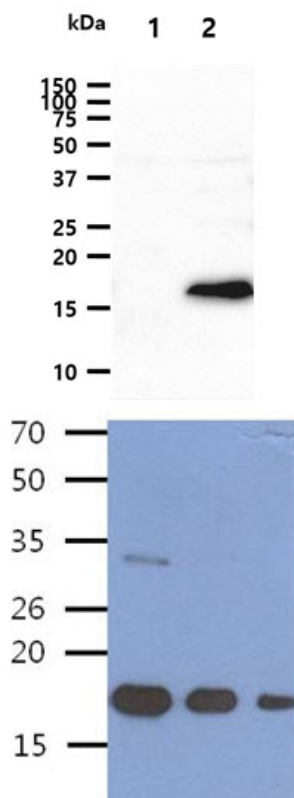
Bone morphogenetic proteins (BMPs) are members of the TGF beta superfamily. BMPs are involved in the induction of cartilage and bone formation. Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation 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)



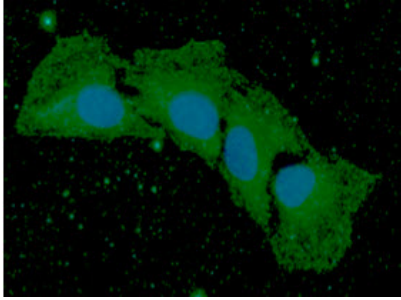
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BMP8b antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: BMP8b transfected 293T cell lysate

The Recombinant BMP8b proteins (200, 100, 50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human 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).