# BMP-8 (h): 293T Lysate: sc-112023



The Power to Question

#### **BACKGROUND**

Bone morphogenic proteins (BMPs) are members of the TGF $\beta$  superfamily. BMPs are involved in the induction of cartilage and bone formation. *In vivo* studies have shown that BMP-2 (also designated BMP-2A) and BMP-3 can independently induce cartilage formation. Smad3 association with the TGF $\beta$  receptor complex and Smad1 translocation to the nucleus are observed after the addition of BMP-4 (also designated BMP-2B), suggesting that BMP-4 may play a role in activation of the Smad pathway. BMP-5, BMP-6 and BMP-7 all share high sequence homology with BMP-2, indicating that they each may be able to induce cartilage formation. 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.

## **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: BMP8A (human) mapping to 1p34.3, BMP8B (human) mapping to 1p34.2.

#### **PRODUCT**

BMP-8 (h): 293T Lysate represents a lysate of human BMP-8 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **APPLICATIONS**

BMP-8 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive BMP-8 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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