

BMP-5 (h): 293T Lysate: sc-114151

BACKGROUND

Bone morphogenic proteins (BMPs) are members of the TGF β 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 β 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 (also designated OP-2) is thought to be involved in early development, as detectable expression has not been found in adult organs.

REFERENCES

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4. Oskaynak, E., et al. 1992. Osteogenic protein-2. A new member of the transforming growth factor- β superfamily expressed early in embryogenesis. *J. Biol. Chem.* 267: 25220-25227.
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7. Zhang, Y., et al. 1996. Receptor-associated Mad homologues synergize as effectors of the TGF β response. *Nature* 383: 168-172.
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CHROMOSOMAL LOCATION

Genetic locus: BMP5 (human) mapping to 6p12.1.

PRODUCT

BMP-5 (h): 293T Lysate represents a lysate of human BMP-5 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

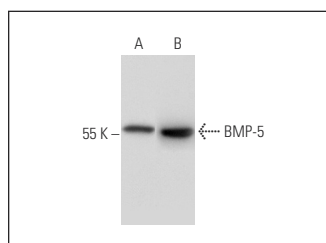
APPLICATIONS

BMP-5 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive BMP-5 antibodies. Recommended use: 10-20 μ l per lane.

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

BMP-5 (L-16): sc-73747 is recommended as a positive control antibody for Western Blot analysis of enhanced human BMP-5 expression in BMP-5 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



BMP-5 (L-16): sc-73747. Western blot analysis of BMP-5 expression in non-transfected: sc-117752 (A) and human BMP-5 transfected: sc-114151 (B) 293T whole cell lysates.

RESEARCH USE

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