

BMP-9 (h2): 293T Lysate: sc-370246

BACKGROUND

Bone morphogenetic protein-9 (BMP-9), like other members of the TGF β growth factor superfamily, plays an important role in tissue morphogenesis, particularly in bone and connective tissue. Additionally, liver cells such as Hep G2 express receptors to BMP-9, through which it stimulates cell proliferation and regulates blood glucose concentration, an effect not observed in treatment with TGF- β . These *in vivo* activities appear to be exploitable in novel therapies; research shows that addition of BMP-9 or BMP-9 encoding adenoviral vectors promote bone formation *ex vivo* and in immune deficient animals.

REFERENCES

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3. Chen, C., Grzegorzewski, K.J., Barash, S., Zhao, Q., Schneider, H., Wang, Q., Singh, M., Pukac, L., Bell, A.C., Duan, R., et al. 2003. An integrated functional genomics screening program reveals a role for BMP-9 in glucose homeostasis. *Nat. Biotechnol.* 21: 294-301.
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5. Li, J.Z., Li, H., Sasaki, T., Holman, D., Beres, B., Dumont, R.J., Pittman, D.D., Hankins, G.R. and Helm, G.A. 2003. Osteogenic potential of five different recombinant human bone morphogenetic protein adenoviral vectors in the rat. *Gene Ther.* 10: 1735-1743.

CHROMOSOMAL LOCATION

Genetic locus: GDF2 (human) mapping to 10q11.22.

PRODUCT

BMP-9 (h2): 293T Lysate represents a lysate of human BMP-9 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

BMP-9 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive BMP-9 antibodies. Recommended use: 10-20 μ l per lane.

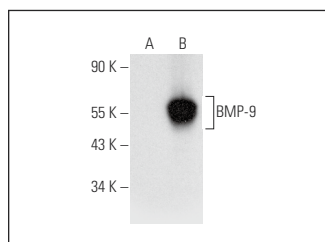
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

BMP-9 (H-3): sc-514211 is recommended as a positive control antibody for Western Blot analysis of enhanced human BMP-9 expression in BMP-9 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

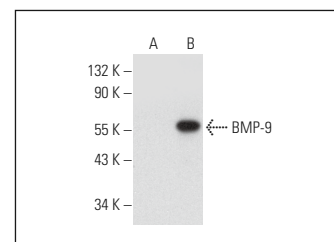
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



BMP-9 (H-3): sc-514211. Western blot analysis of BMP-9 expression in non-transfected: sc-117752 (A) and human BMP-9 transfected: sc-370246 (B) 293T whole cell lysates.



BMP-9 (H-6): sc-515256. Western blot analysis of BMP-9 expression in non-transfected: sc-117752 (A) and human BMP-9 transfected: sc-370246 (B) 293T whole cell lysates.

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.