SANTA CRUZ BIOTECHNOLOGY, INC.

Smad3 (FL): sc-4709

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Smad proteins, the mammalian homologs of the *Drosophila* Mothers against dpp (Mad), have been implicated as downstream effectors of TGFβ/BMP signaling. Smad1 (also designated Madr1 or JV4-1) and Smad5 are effectors of BMP2 and BMP4 function, while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in TGFβ and activin-mediated growth modulation . Smad4 (also designated DPC4) has been shown to mediate all of the above activities through interaction with various Smad family members. Smad6 and Smad7 regulate the response to activin/TGFβ signaling by interfering with TGFβ-mediated phosphorylation of other Smad family members.

REFERENCES

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SOURCE

Smad3 (FL) is expressed in *E. coli* as a 77 kDa tagged fusion protein corresponding to amino acids 1-425 representing full length Smad3 of human origin.

PRODUCT

Smad3 (FL) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 50 µg purified protein in PBS containing 5 mM DTT and 50% glycerol.

APPLICATIONS

Smad3 (FL) is suitable as a substrate for Phosphorylase kinase: sc-4823 and as a Western blotting control for sc-6202 and sc-8332.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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