

Smad1 (1-465): sc-4434 WB

BACKGROUND

Smad proteins, the mammalian homologs of the *Drosophila* Mothers against dpp (Mad) have been implicated as downstream effectors of TGF β /BMP signaling. Smad1 (also designated Madr1 or JV4-1), Smad5 and mammalian Smad8 (also designated Smad9 or MADH6) are effectors of BMP2 and BMP4 function while Smad2 (also designated Madr2 or JV18-1) and Smad3 are involved in TGF β 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/TGF β signaling by interfering with TGF β -mediated phosphorylation of other Smad family members.

REFERENCES

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SOURCE

Smad1 (1-465) is expressed in *E. coli* as a 79 kDa tagged fusion protein corresponding to amino acids 1-465 of Smad1 of human origin.

PRODUCT

Smad1 (1-465) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 μ g protein in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Smad1 (1-465) is suitable as a Western blotting control for sc-6031, sc-6201, sc-7153, sc-7960 and sc-7965.

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.