

SMAD3

Reactivity: Human Mouse Rat

Tested applications: WB IHC ICC IP

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:200 ICC 1:50 - 1:200 IP 1:20 - 1:100

Calculated MW: 58kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human SMAD3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

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Synonym:

HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3;

Catalog #: A0427

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 4088

Isotype: IgG

Swiss Prot: P84022

Purity: Affinity purification

For research use only.

Background:

Smad proteins belong to a group of intracellular signal transducers and downstream effectors of TGF- β /BMP Signaling. The family consists of nine members that are highly conserved in the N- and C-terminal regions. Smad3 is a key component in intracellular signaling of transforming growth factor β (TGF- β), an inhibitor for tumor cell proliferation. Smad3 is activated by activin/TGF- β receptors, which form a heteromeric complex with Smad4, translocating to the nucleus and regulating the expression of TGF- β target genes. Interaction of Smad3 with Akt, can initiate TGF- β -induced apoptosis and cell cycle arrest. Smad3 expression may be critical in tumor suppression in early stages of gastric carcinogenesis.

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