

## 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:**

1 mg/ml

**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- $\beta$ /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  $\beta$  (TGF- $\beta$ ), an inhibitor for tumor cell proliferation. Smad3 is activated by activin/TGF- $\beta$  receptors, which form a heteromeric complex with Smad4, translocating to the nucleus and regulating the expression of TGF- $\beta$  target genes. Interaction of Smad3 with Akt, can initiate TGF- $\beta$ -induced apoptosis and cell cycle arrest. Smad3 expression may be critical in tumor suppression in early stages of gastric carcinogenesis.

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