

## Product datasheet for **TA319190**

### SMAD3 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:15,000-1:75,000, WB: 1:1,000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	SMAD3 Antibody was prepared by repeated immunizations with a synthetic peptide corresponding to an internal region of human Smad3 protein surrounding amino acid residue 179.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	SMAD family member 3
Database Link:	<a href="#">NP_001138574</a> <a href="#">Entrez Gene 4088 Human</a> <a href="#">P84022</a>
Synonyms:	HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3



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**Note:** This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Smad3 (also known as Mothers against decapentaplegic homolog 3, Mothers against DPP homolog 3, Mad3, hMAD-3, JV15-2 or hSMAD3) is a transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinase. These activators exert diverse effects on a wide array of cellular processes. The Smad proteins mediate much of the signaling responses induced by the TGF-beta superfamily. Activated type I receptor phosphorylates receptor-activated Smads (R-Smads) at their c-terminal two extreme serines in the S-S-X-S motif, e.g. Smad2 and Smad3 proteins in the TGF-b pathway, or Smad1, Smad5 or Smad8 in the bone morphogenic protein or BMP pathway. Upon phosphorylation R-Smads are translocated into nucleus, where they regulate transcription of target genes. Based on microarray and animal model experiments, Smad3 accounts for at least 80% of all TGF-b-mediated response.

**Protein Families:** Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

**Protein Pathways:** Adherens junction, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway, Wnt signaling pathway

### Product images:



WB of Rabbit Anti-SMAD3 antibody. Lane 1: AML12 unstimulated. Lane 2: AML12 stimulated with TGFB. Lane 3: MEFwt unstimulated. Lane 4: MEFwt stimulated with TGFB. Lane 5: MEF Smad3 KO unstimulated. Lane 6: MEF Smad3 KO stimulated with TGFB. Lane 7: HEK293 Smad3T179A mutant unstimulated. Lane 8: HEK293 Smad3T179A mutant stimulated with TGFB. Lane 9: HEK293 Smad3T179V mutant unstimulated. Lane 10: HEK293 Smad3T179V mutant stimulated with TGFB. Primary antibody: 1:1000. Secondary antibody: 1:10,000.