

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: NP 001138574

Entrez Gene 4088 Human

P84022

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. Uppon 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.

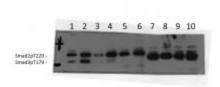
Protein Families:

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.