

Product datasheet for **AP07817PU-N**

SMAD3 (417-425) pSer423/425 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	ELISA: 1/75000 - 1/300000. Flow Cytometry. Immunofluorescence. Immunohistochemistry on Paraffin Sections: 2.5 µg/ml. Western Blot: 1/2000 - 1/20000.
Reactivity:	Bovine, Chicken, Human, Mouse, Porcine, Rat, Zebrafish, Frog, Xenopus
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acids 417-425 of Human SMAD3 protein. Epitope: pSer423/Ser425
Specificity:	This antibody recognizes aa. 417-425 of SMAD3 pSer423/425.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 State: Aff - Purified State: Liquid purified IgG fraction Preservative: 0.01% (w/v) Sodium Azide
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	SMAD family member 3
Database Link:	Entrez Gene 4088 Human P84022



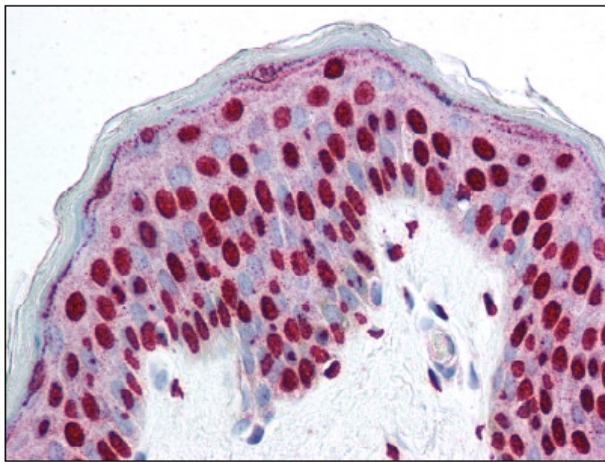
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Background:

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-b superfamily. Briefly, activated type I receptor phosphorylates receptor-activated Smads (R-Smads) at their c-terminal two extreme serines in the SSXS motif, e.g. Smad2 and Smad3 proteins in the TGF-b pathway, or Smad1, Smad5 or Smad8 in the BMP pathway. Then the phosphorylated R-Smad 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.

Synonyms:

SMAD family member 3, SMAD 3, SMAD-3, Mad3, MAD-3, MADH3, MAD homolog 3, JV15-2

Product images:

Formalin-Fixed Paraffin-Embedded Human Skin stained with SMAD3 antibody at 2.5 ug/ml after heat-induced antigen retrieval. Antibody LS-B64 concentration 5 ug/ml.