

Product datasheet for **AM31100PU-N**

SMAD3 Mouse Monoclonal Antibody [Clone ID: 7F3]

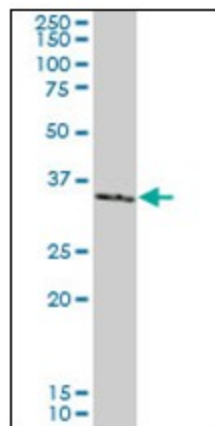
Product data:

Product Type:	Primary Antibodies
Clone Name:	7F3
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 2.5 µg/ml. Western Blot.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	SMAD3 antibody was raised against recombinant protein
Specificity:	This antibody reacts to SMAD3.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody 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 25631 Rat Entrez Gene 4088 Human P84022

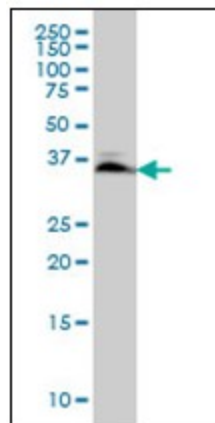


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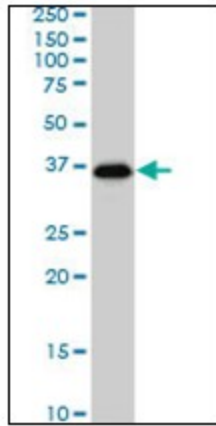
- Background:** SMAD3, a transcriptional regulator, is activated by TGF-beta and Activin 1 receptor kinase. SMAD3 recognizes an 8 bp palindromic sequence GTCTAGAC. Upon phosphorylation at two extreme C-terminal serines, SMAD3 is translocated into the nucleus where it forms complexes with other SMAD proteins, depending on the activation pathway, and regulates the transcription of target genes.
- Synonyms:** SMAD family member 3, SMAD 3, SMAD-3, Mad3, MAD-3, MADH3, MAD homolog 3, JV15-2
- 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:

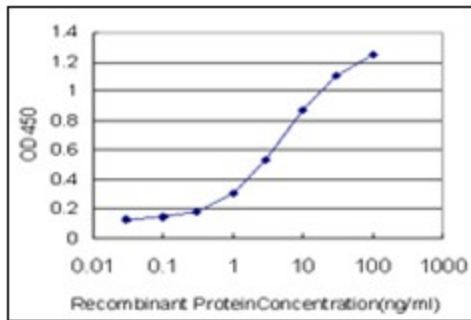
SMAD3 monoclonal antibody clone 7F3. Western Blot analysis of SMAD3 expression in human colon.



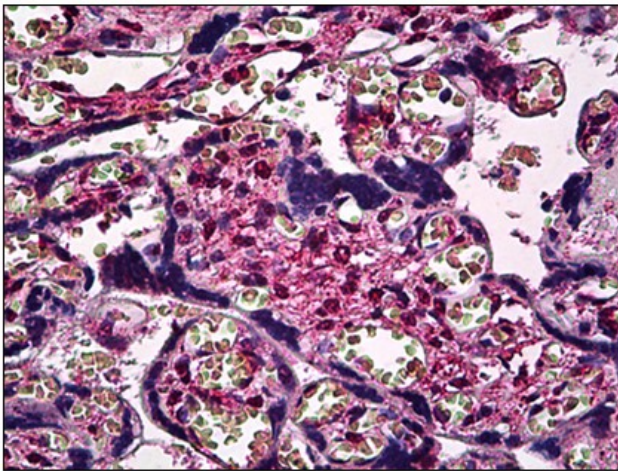
SMAD3 monoclonal antibody clone 7F3. Western Blot analysis of SMAD3 expression in HeLa.



SMAD3 monoclonal antibody clone 7F3. Western Blot analysis of SMAD3 expression in Jurkat.



Detection limit for recombinant GST tagged SMAD3 is approximately 0.1ng/ml as a capture antibody.



Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)