

Product datasheet for **AM20667PU-N**

SMAD4 Mouse Monoclonal Antibody [Clone ID: IMD-89]

Product data:

Product Type:	Primary Antibodies
Clone Name:	IMD-89
Applications:	IF, WB
Recommended Dilution:	Western Blot: 2 - 4 µg/ml. Immunocytochemistry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human Smad4 (DPC4).
Specificity:	This antibody reacts to SMAD4.
Formulation:	1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1.2% sodium acetate or neutral PBS
Concentration:	0,1 mg/ml (after reconstitution with PBS)
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -20°C. Following reconstitution 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 4
Database Link:	Entrez Gene 4089 Human Q13485



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Background:	SMAD4 plays a pivotal role in signal transduction of the transforming growth factor beta superfamily cytokines by mediating transcriptional activation of target genes. Smad4 signalling in T cells is required for suppression of gastrointestinal cancer. Mutational inactivation of SMAD4 causes TGF-beta unresponsiveness and gave a basis for understanding the physiologic role of this gene in tumorigenesis. Mutations in DPC4 (SMAD4) cause juvenile polyposis syndrome, but only account for a minority of cases.
Synonyms:	SMAD family member 4, SMAD-4, SMAD 4, MADH4, MAD homolog 4, DPC4
Protein Families:	Druggable Genome, 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