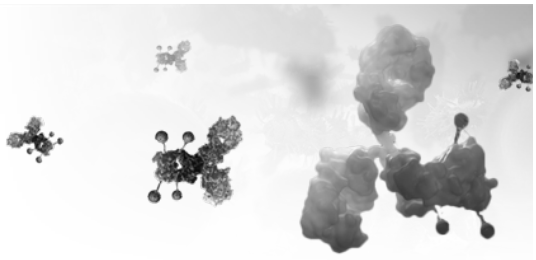

Anti-SMAD4 (aa 56-165) polyclonal antibody (DPAB-DC1886)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.
Immunogen	SMAD4 (NP_005350, 56 a.a. ~ 165 a.a) partial recombinant protein with GST tag. The sequence is SLITAITTNGAHPSKCVTIQRTLDGRLQVAGRKGFPHVIYARLWRWPDLHKNELKHVKYC QYAFDLKCDSVCVNPYHYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHD
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

GENE INFORMATION

Gene Name	SMAD4 SMAD family member 4 [Homo sapiens (human)]
Official Symbol	SMAD4
Synonyms	SMAD4; SMAD family member 4; JIP; DPC4; MADH4; MYHRS; mothers against decapentaplegic homolog 4; MAD homolog 4; SMAD, mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; deletion target in pancreatic carcinoma 4; mothers against decapentaplegic, Drosophila, homolog of, 4;
Entrez Gene ID	4089
Protein Refseq	NP_005350
UniProt ID	A0A024R274
Chromosome Location	18q21.1
Pathway	ALK1 signaling events; Adherens junction; Androgen receptor signaling pathway; BMP receptor signaling
Function	contributes_to DNA binding; I-SMAD binding; R-SMAD binding; RNA polymerase II transcription factor binding

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