



## Human SMAD6 peptide (DAG-P1174)

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

### PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene belongs to the SMAD family of proteins, which are related to Drosophila mothers against decapentaplegic (Mad) and C. elegans Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions in the negative regulation of BMP and TGF-beta/activin-signalling. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2009]
<b>Specificity</b>	Ubiquitous in various organs, with higher levels in lung. Isoform B is up-regulated in diseased heart tissue.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the dwarfin/SMAD family.Contains 1 MH1 (MAD homology 1) domain.Contains 1 MH2 (MAD homology 2) domain.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">SMAD6 SMAD family member 6 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	SMAD6
<b>Synonyms</b>	SMAD6; SMAD family member 6; AOVD2; MADH6; MADH7; HsT17432; mothers against

decapentaplegic homolog 6; SMAD 6; hSMAD6; MAD homolog 6; mothers against DPP homolog 6; SMAD, mothers against DPP homolog 6; Mothers against decapentaplegic, drosophila, homolog of, 6;

Entrez Gene ID	<a href="#">4091</a>
mRNA Refseq	<a href="#">NM_001142861.2</a>
Protein Refseq	<a href="#">NP_001136333.1</a>
UniProt ID	O43541
Chromosome Location	15q21-q22
Pathway	BMP receptor signaling, organism-specific biosystem; BMP signalling and regulation, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Integrated Breast Cancer Pathway, organism-specific biosystem; Integrated Pancreatic Cancer Pathway, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; TGF Beta Signaling Pathway, organism-specific biosystem; TGF-beta Receptor Signaling
Function	I-SMAD binding; R-SMAD binding; chromatin binding; co-SMAD binding; metal ion binding; protein binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding; transforming growth factor beta receptor, inh