



Anti-SMAD7 (aa 160-260) polyclonal antibody (DPAB-DC1887)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene.
Immunogen	SMAD7 (NP_005895, 160 a.a. ~ 260 a.a) partial recombinant protein with GST tag. The sequence is CKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHHLSRLCELESPPPPYSRYPMDFL KPTADCPDAVPSSAETGGTNYLAPGGLSDSQLLLEPGDRSH
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	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.

GENE INFORMATION

Gene Name	SMAD7 SMAD family member 7 [Homo sapiens (human)]
Official Symbol	SMAD7
Synonyms	SMAD7; SMAD family member 7; CRCS3; MADH7; MADH8; mothers against decapentaplegic homolog 7; hSMAD7; MAD homolog 8; mothers against DPP homolog 8; SMAD, mothers against DPP homolog 7; Mothers against decapentaplegic, drosophila, homolog of, 7; MAD (mothers against decapentaplegic, Drosophila) homolog 7;
Entrez Gene ID	4092
Protein Refseq	NP_001177750
UniProt ID	O15105
Chromosome Location	18q21.1
Pathway	ALK1 signaling events; Disease; Endocytosis; Gene Expression
Function	I-SMAD binding; activin binding; beta-catenin binding; collagen binding