



# Mouse Anti-Human SMAD7 monoclonal antibody, clone 44970N (CABT-ZB1123)

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

## PRODUCT INFORMATION

<b>Specificity</b>	Cross-reactivity: Human, (predicted: Mouse, Rat)
<b>Target</b>	SMAD7
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human SMAD7
<b>Isotype</b>	IgG
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	44970N
<b>Purification</b>	Protein A purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC-P Recommended Dilutions: WB: 1:500-2000 IHC-P: 1:400-800 Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Purified, Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µL

<b>Buffer</b>	0.01M TBS(pH7.4) with 50% Glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	SMAD7 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 (TGFB1), leading to the degradation of both the encoded protein and TGFB1. Expression of SMAD7 is induced by TGFB1. Variations in SMAD7 are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for SMAD7.
<b>Keywords</b>	MAD; Mad homolog 7; MAD mothers against decapentaplegic homolog 7; MADH 7; SMAD 7; SMAD; SMAD family member 7; SMAD7_HUMAN

## GENE INFORMATION

<b>Synonyms</b>	MAD (mothers against decapentaplegic Drosophila) homolog 7; MAD; Mad homolog 7; MAD mothers against decapentaplegic homolog 7; MADH 7; MADH 8; MADH8; Mothers Against Decapentaplegic Drosophila Homolog of 7; Mothers against decapentaplegic homolog 7; Mothers against decapentaplegic homolog 8; Mothers against DPP homolog 7; Mothers against DPP homolog 8; SMA- AND MAD-RELATED PROTEIN 7; SMAD 7; SMAD; SMAD family member 7; SMAD, mothers against DPP homolog 7 (Drosophila); SMAD, mothers against DPP homolog 7; SMAD7_HUMAN
<b>Entrez Gene ID</b>	<a href="#">4092</a>
<b>UniProt ID</b>	<a href="#">O15105</a>