



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

Specificity	Cross-reactivity: Human, (predicted: Mouse, Rat)
Target	SMAD7
Immunogen	KLH conjugated synthetic peptide derived from human SMAD7
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	44970N
Purification	Protein A purified
Conjugate	Unconjugated
Applications	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.
Format	Purified, Liquid
Concentration	Lot specific
Size	100 µL

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

BACKGROUND

Introduction	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 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of SMAD7 is induced by TGFBR1. Variations in SMAD7 are a cause of susceptibility to colorectal cancer type 3 (CRC3). Several transcript variants encoding different isoforms have been found for SMAD7.
Keywords	MAD; Mad homolog 7; MAD mothers against decapentaplegic homolog 7; MADH 7; SMAD 7; SMAD; SMAD family member 7; SMAD7_HUMAN

GENE INFORMATION

Synonyms	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
Entrez Gene ID	4092
UniProt ID	O15105