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Datasheet for ABIN3044112 anti-SMAD2 antibody (N-Term)

4 Images

2 Publications



Overview

Quantity:	100 µg
Target:	SMAD2
Binding Specificity:	AA 94-112, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)),
	Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Mothers against decapentaplegic homolog 2(SMAD2) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.				
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Smad2(94-112aa DQWDTTGLYSFSEQTRSLD), identical to the related rat and mouse sequences.				
Sequence:	DQWDTTGLYS FSEQTRSLD				
Isotype:	lgG				
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.				
Characteristics:	Rabbit IgG polyclonal antibody for Mothers against decapentaplegic homolog 2(SMAD2)				

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Protein Name: Mothers against decapentaplegic homolog 2
Gene Name: SMAD family member 2
detection. Tested with WB, IHC-P, ICC in Human, Mouse, Rat.

Purification:

Immunogen affinity purified.

Target Details

Target:	SMAD2				
Alternative Name:	SMAD2 (SMAD2 Products)				
Background:	Smad2(Mothers against decapentaplegic homolog 2), also known as MADR2, MADH2, SMAD				
	family member 2 or SMAD2, is a protein that in humans is encoded by the SMAD2 gene. MAD				
	homolog 2 belongs to the SMAD, a family of proteins similar to the gene products of the				
	Drosophila gene 'mothers against decapentaplegic'(Mad) and the C. elegans gene Sma. Eppert				
	et al.(1996) mapped the MADR2 gene close to DPC4 at 18q21, a region which is frequently				
	deleted in colorectal cancers. Riggins et al.(1996) mapped the human MADH2 gene to 18q21.				
	Nakao et al.(1997) refined the localization of the SMAD2 gene to 18q21.1, approximately 3 Mb				
	proximal to DPC4, by fluorescence in situ hybridization. SMAD2 mediates the signal of the				
	transforming growth factor(TGF)-beta, and thus regulates multiple cellular processes, such as				
	cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta				
	receptors through its interaction with the SMAD anchor for receptor activation(SARA) protein. I				
	response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors.				
	Synonyms: hMAD 2 antibody hMAD-2 antibody hSMAD2 antibody JV18 1 antibody JV18				
	antibody JV18-1 antibody JV181 antibody MAD antibody MAD homolog 2 antibody MAD				
	Related Protein 2 antibody Mad-related protein 2 antibody MADH2 antibody MADR2				
	antibody MGC22139 antibody MGC34440 antibody Mothers Against Decapentaplegic Homolog				
	2 antibody mothers against DPP homolog 2 antibody OTTHUMP00000163489 antibody Sma				
	and Mad related protein 2 antibody SMAD 2 antibody SMAD antibody SMAD family member 2				
	antibody SMAD, mothers against DPP homolog 2 antibody SMAD2 antibody SMAD2_HUMAN				
	antibody				
UniProt:	Q15796				
UniProt:	Q15796				

Pathways:

Cell Division Cycle, Hormone Transport, Chromatin Binding, Protein targeting to Nucleus

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Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, The		
	detection limit for SMAD2 is approximately 2.5 ng/lane under reducing conditions.		
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Predicted Species: Mouse, Rat,		
	Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for		
	20 mins is required for the staining of formalin/paraffin sections.		
	ICC: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Predicted Species: Mouse, Rat		
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be		
	fit for the product based on sequence similarities. Other applications have not been tested.		
	Optimal dilutions should be determined by end users.		
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by		
	ABIN921231 in IHC(P) and ICC.		
Restrictions:	For Research Use only		

Handling

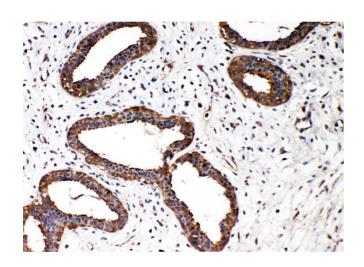
Format:	Lyophilized					
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu\text{g/mL}.$					
Concentration:	500 µg/mL					
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.					
Preservative:	Thimerosal (Merthiolate), Sodium azide					
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.					
Handling Advice:	Avoid repeated freezing and thawing.					
Storage:	4 °C/-20 °C					
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.					
Expiry Date:	12 months					
Publications						

Product cited in:

Whiteland, Nicholls, Shimeld, Easty, Williams, Hill: "Immunohistochemical detection of T-cell

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Images



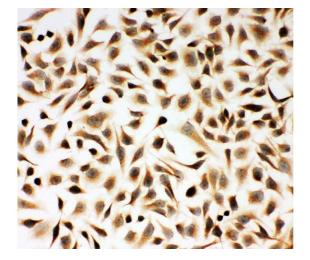
	1	2	3	4	5	6
130KD -						
100KD -						
70KD -						
55KD -	-	-	-	-	•	•
35KD-						
25KD-						
15KD -						

Immunohistochemistry

Image 1. Anti-Smad2 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue

Western Blotting

Image 2. Anti-Smad2 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: HELA Cell Lysate Lane 3: SMMC Cell Lysate Lane 4: JURKAT Cell Lysate Lane 5: U87 Cell Lysate Lane 6: MCF-7 Cell Lysate



Immunohistochemistry

Image 3. Anti-Smad2 antibody, ICC ICC: HELA Cell

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