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Datasheet for ABIN3043980

anti-SMAD5 antibody (Middle Region)





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Overview		
Quantity:	100 μg	
Target:	SMAD5	
Binding Specificity:	AA 248-267, Middle Region	
Reactivity:	Human, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Purpose:	Rabbit IgG polyclonal antibody for Mothers against decapentaplegic homolog 5(SMAD5)	
	detection. Tested with WB, IHC-P in Human, Mouse, Rat.	
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human SMAD5(248-	
	267aa IPQIMPSISSRDVQPVAYEE), identical to the related rat sequence, and different from the	
	related mouse sequence by one amino acid.	
Sequence:	IPQIMPSISS RDVQPVAYEE	
Isotype:	IgG	
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 5(SMAD5)	

Product Details

detection. Tested with WB, IHC-P in Human, Mouse, Rat.

Gene Name: SMAD family member 5

Protein Name: Mothers against decapentaplegic homolog 5

Purification:

Immunogen affinity purified.

Target Details

Target: SMAD5

Alternative Name: SMAD5 (SMAD5 Products)

Background:

Mother against decapentaplegic homolog 5 also known as SMAD5 is a protein that in humans is encoded by the SAMD5 gene. It belongs to the SMAD family of proteins, which belong to the TGFbeta superfamily of modulators. The gene was assigned to human chromosome 5q31. Like many other TGFbeta family members SMAD5 is involved in cell signalling and modulates signals of bone morphogenetic proteins(BMP's). It may play a role in the pathway where TGFbeta is an inhibitor of hematopoietic progenitor cells.

Synonyms: DKFZp781C1895 antibody|DKFZp781O1323 antibody|Dwfc antibody|hSmad 5 antibody|hSmad5 antibody|JV5 1 antibody|JV5-1 antibody|MAD homolog 5 antibody|MAD mothers against decapentaplegic homolog 5 antibody|MADH, mothers against decapentaplegic homolog 5 antibody|MADH 5 antibody|MADH5 antibody|Mothers against decapentaplegic homolog 5 antibody|Mothers against DPP homolog 5 antibody|MusMLP antibody|SMA and MAD related protein 5 antibody|SMAD 5 antibody|SMAD family member 5 antibody|SMAD mothers against DPP homolog 5 antibody|SMAD5_HUMAN antibody

UniProt:

Q99717

Application Details

Application Notes:

WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, The detection limit for SMAD5 is approximately 1.5 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Rat, Predicted Species: Mouse, 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.

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.

Application Details		
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu g/mL$.	
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.	

At -20°C for one year. After reconstitution, at 4°C for one month.

Avoid repeated freezing and thawing.

4 °C/-20 °C

and thawing.

12 months

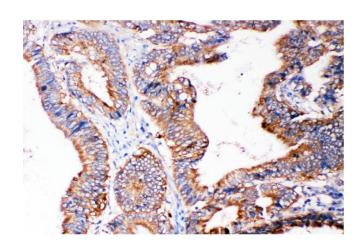
Images

Expiry Date:

Handling Advice:

Storage Comment:

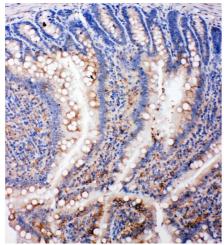
Storage:

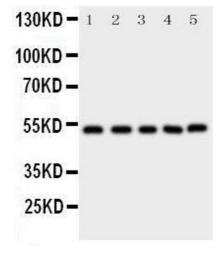


Immunohistochemistry

It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing

Image 1. Anti-SMAD5 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue





Immunohistochemistry

Image 2. Anti-SMAD5 antibody, IHC(P) IHC(P): Rat Intestine Tissue

Western Blotting

Image 3.

Please check the product details page for more images. Overall 4 images are available for ABIN3043980.