

Datasheet: VMA00252

BATCH NUMBER 170981

Description:	MOUSE ANTI SMAD4
Specificity:	SMAD4
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	4G1C6
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites.

Buffer Solution

Phosphate buffered saline.

Preservative

0.09% Sodium Azide (NaN₃).

Stabilisers

Approx. Protein Concentrations IgG concentration 0.5 mg/ml.

Immunogen Purified recombinant fragment of human SMAD4 expressed in *E. coli*

External Database Links

UniProt:

[Q13485](#)

[Related reagents](#)

Entrez Gene:

[4089](#)

SMAD4

[Related reagents](#)

Synonyms DPC4, MADH4

Specificity

Mouse anti Human SMAD4 antibody recognizes the Mothers against decapentaplegic homolog 4, also known as MAD homolog 4, SMAD, mothers against DPP homolog 4, deleted in pancreatic carcinoma locus 4, deletion target in pancreatic carcinoma 4, mothers against decapentaplegic homolog 4 and mothers against decapentaplegic.

SMAD4 encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. A product of SMAD4 gene, Mothers against decapentaplegic homolog 4 forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in SMAD4 have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome. (provided by RefSeq, Oct 2009).

Mouse anti Human SMAD4 antibody detects a band of 65 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Anti SMAD4 detects a band of approximately 65 kDa in Jurkat cell lysates.

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee 12 months from date of despatch.

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00252>

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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Printed on 09 Jul 2025

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