

Datasheet: MCA6319

Description:	RABBIT ANTI SMAD4
Specificity:	SMAD4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM277
Isotype:	IgG
Quantity:	0.1 ml

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
Immunohistology - Paraffin	▪			1/1000 - 1/2000
Western Blotting	▪			1/500 - 1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse

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

Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

50% Glycerol

Immunogen A peptide corresponding to the C-terminus of Human SMAD4

External Database Links

UniProt:

[Q13485](#) [Related reagents](#)

Entrez Gene:

[4089](#) SMAD4 [Related reagents](#)

Synonyms DPC4, MADH4

Specificity **Rabbit anti Human SMAD4 antibody** recognizes mothers against decapentaplegic homolog 4, also known as DPC4, MADH4. SMAD4 is a tumor suppressor which acts as a shuttling protein between the nucleus and the cytoplasm and mediates the TGF-beta signaling pathway, suppressing epithelial cell growth ([Ullah et al. 2018](#)). Overexpression of SMAD4 increases apoptosis and suppresses cell proliferation. Accordingly, loss of SMAD4 is linked to various cancers, including those arising in the pancreas, colon, prostate, and bile duct ([Chung et al. 2017](#)). Several different SMAD4 isoforms have been found in various cancer types, particularly pancreatic cancer, and can compete against or help cancer cells ([Ullah et al. 2018](#)). Over 50% of patients with pancreatic ductal adenocarcinoma (PDAC), one of the most fatal human cancers, involve inactivation of SMAD4 ([Ahmed et al. 2017](#)).

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10048 available at:
10048: <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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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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