

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: https://www.bio-rad-antibodies.com/SDS/MCA631910048
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](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com	To find a
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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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