

## Datasheet: MCA6319

**BATCH NUMBER 155789**

<b>Description:</b>	RABBIT ANTI SMAD4
<b>Specificity:</b>	SMAD4
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM277
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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

0.09% Sodium Azide

<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A peptide corresponding to the C-terminus of Human SMAD4
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13485</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4089</a> SMAD4    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	DPC4, MADH4
<b>Specificity</b>	<p><b>Rabbit anti Human SMAD4 antibody</b> 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 (<a href="#">Ullah et al. 2018</a>). 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 (<a href="#">Chung et al. 2017</a>). Several different SMAD4 isoforms have been found in various cancer types, particularly pancreatic cancer, and can compete against or help cancer cells (<a href="#">Ullah et al. 2018</a>). Over 50% of patients with pancreatic ductal adenocarcinoma (PDAC), one of the most fatal human cancers, involve inactivation of SMAD4 (<a href="#">Ahmed et al. 2017</a>).</p>
<b>Storage</b>	<p>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</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10048 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/MCA6319">https://www.bio-rad-antibodies.com/SDS/MCA6319</a>  10048</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	<a href="#">FITC</a>
Goat Anti Rabbit IgG (H/L) (STAR124...)	<a href="#">HRP</a>
Goat Anti Rabbit IgG (Fc) (STAR121...)	<a href="#">Biotin</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Sheep Anti Rabbit IgG (STAR35...)	<a href="#">RPE</a>
Sheep Anti Rabbit IgG (STAR36...)	<a href="#">DyLight®488</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a>

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batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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