

## Datasheet: MCA6300

<b>Description:</b>	RABBIT ANTI DESMIN
<b>Specificity:</b>	DESMIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM234
<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 - 1/4000
Western Blotting	▪			1/1000 - 1/2000

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

Reacts with: Mouse

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

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 Human desmin
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P17661</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">1674</a> DES <a href="#">Related reagents</a>
<b>Specificity</b>	<b>Rabbit anti Human desmin antibody</b> recognizes desmin (DES). Desmin is the intermediate filament protein in striated muscle, and maintains the structural and functional integrity of muscle cells ( <a href="#">Singh and Robbins 2018</a> ). Mutations in the desmin gene, or post-translational modifications, cause skeletal and cardiac myopathies known as desmin related myopathies (DRMs) and include mitochondrial defects, cardiomyocyte death, muscle degeneration and other conditions ( <a href="#">Capetanaki et al. 2015</a> ). Desmin is frequently down-regulated in cardiac pathology, and is believed to play a role in progression of heart failure ( <a href="#">Deliu et al. 2017</a> ). Desmin expression is significantly expressed in colorectal cancer (CRC) and adenomas compared with normal colonic tissue and disrupts the function of the tumor suppressor p53, a mechanism which could explain the poor prognosis associated with high desmin expression ( <a href="#">Li et al. 2017</a> ).
<b>Storage</b>	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
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6300">https://www.bio-rad-antibodies.com/SDS/MCA6300</a> 10048
<b>Regulatory</b>	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](https://bio-rad-antibodies.com/datasheets)

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