

Datasheet: MCA6361

**BATCH NUMBER 157624**

<b>Description:</b>	RABBIT ANTI CALD1
<b>Specificity:</b>	CALD1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM396
<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	▪			1/100 - 1/200
Western Blotting	▪			1/100 - 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, 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 on 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 CALD1. This antibody may also react to mouse or rat CALD1, as predicted by immunogen homology
<b>External Database Links</b>	<p><b>UniProt:</b> <a href="#">Q05682</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b> <a href="#">800</a> CALD1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CAD, CDM
<b>Specificity</b>	<p><b>Rabbit anti CALD1 antibody</b> recognizes caldesmon, also known as CDM and CAD.</p> <p>CALD1 is an actin-binding protein which is also able to bind myosin, calmodulin and tropomyosin, and inhibits the actin-activated myosin ATPase by blocking actin-myosin interaction. As a "side-binder" of actin, CALD1 stabilizes the filamentous structure of actin and is therefore profoundly involved with assembly and organization of the actin cytoskeleton (<a href="#">Wang 2008</a>). CALD1 negatively regulates cell proliferation and migration and release of metalloproteinase, and is itself regulated by a range of kinases at multiple phosphorylation sites (<a href="#">Hai 2015</a>). It is found in smooth muscle and non-muscle cells. In smooth muscle, CALD1 appears to regulate smooth muscle contraction and cell motility (<a href="#">Eves et al. 2006</a>). CALD1 has been observed to be downregulated in many cancer cell types and has been identified as a potent suppressor of cell invasion, regulating podosome/invadopodium formation of cancer cells (<a href="#">Yoshio et al. 2007</a>).</p>
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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>	Material Safety Datasheet documentation #10048 available at: 10048: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf</a>
<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](#)
- Sheep Anti Rabbit IgG (STAR35...)    [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

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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