

Datasheet: MCA6309

BATCH NUMBER 155781

Description:	RABBIT ANTI CALPONIN 1
Specificity:	CALPONIN 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM262
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
Western Blotting	▪			1/1000 - 1/2000
Immunocytochemistry	▪			1/100 - 1/200

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
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
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A peptide corresponding to the C-terminus of Human calponin-1
External Database	UniProt:

Links

[P51911](#) [Related reagents](#)

Entrez Gene:

[1264](#) CNN1 [Related reagents](#)

Specificity

Rabbit anti Human calponin 1 antibody recognizes calponin 1, also known as CCN1, basic calponin, Calponin H1, smooth muscle. Calponin 1 mostly expressed in abundance in smooth muscle cells ([Liu and Jin 2016](#)). It is a stress fiber-associated protein which co-localizes and stabilizes actin, and regulates contractility in smooth muscle ([Ciuba et al. 2018](#)). Decreased levels of calponin-1 may be involved with early hypertension via matrix metalloproteinase-2 (MMP-2) ([Belo et al. 2016](#)) Calponin 1 and calponin 2 have been suggested as novel targets for treatment of hypertension ([Feng et al. 2020](#)). Calponin 1 appears to function as a tumor suppressor (Mitchell et al. 2020), and has been identified as a protective factor in melanoma, ovarian cancer, renal angiomyolipoma and colon cancer ([Qiu et al. 2017](#)). Calponin 1 can also help distinguish benign from invasive breast carcinomas ([Mitchell et al. 2020](#)).

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/MCA6309>
10048

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](https://www.bio-rad-antibodies.com/datasheets)
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