

Datasheet: MCA1572

Description:	MOUSE ANTI PROTEIN KINASE C ALPHA
Specificity:	PROTEIN KINASE C ALPHA
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	133
Isotype:	IgG2a
Quantity:	2 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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			Neat - 1/10
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/10 - 1/500

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Species Cross Reactivity

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

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

Tissue Culture Supernatant - liquid

Preservative Stabilisers

0.1% Sodium Azide

Immunogen

Protein kinase C alpha.

**External Database
Links**

UniProt:

[P17252](#) [Related reagents](#)

Entrez Gene:

[5578](#) PRKCA [Related reagents](#)

Synonyms

PKCA, PRKACA

RRID

AB_2284228

Fusion Partners

Spleen cells from immunized mice were fused with cells of the mouse SP2/0 myeloma cell line.

Specificity

Mouse anti Protein Kinase C alpha antibody, clone 133 recognizes the α isoform of protein kinase C. PKC- α is a 672 amino acid enzyme containing a single [AGC-kinase C-terminal](#) domain, a [C2](#) domain, 2 [phorbol-ester/DAGtype zinc fingers](#) and a single [protein kinase](#) domain ([UniProt: P17252](#)).

Mouse anti Protein Kinase C alpha antibody, clone 133 recognizes the sequence PQFVHPILQSAV at the C terminus of PKC α .

References

1. Donovan, A.J. *et al.* (2012) Long QT2 mutation on the Kv11.1 ion channel inhibits current activity by ablating a protein kinase C α consensus site. [Mol Pharmacol. 82 \(3\): 428-37.](#)
2. Chaney, S.Y. *et al.* (2016) Increased proliferation of late-born retinal progenitor cells by gestational lead exposure delays rod and bipolar cell differentiation. [Mol Vis. 22: 1468-89.](#)

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10336 available at:
10336: <https://www.bio-rad-antibodies.com/uploads/MSDS/10336.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Human Anti Mouse IgG2a (HCA037...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

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 batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M383566:210513'

Printed on 21 Mar 2022

© 2022 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)