

Datasheet: AHP1111

Description:	RABBIT ANTI HUMAN PROTEIN KINASE C ZETA (N-TERMINAL)
Specificity:	PROTEIN KINASE C ZETA (N-TERMINAL)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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			▪	
Immunohistology - Paraffin (1)	▪			2 - 10µg/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to protein kinase C zeta were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide: near the N-terminus of human protein kinase C zeta.

**External Database
Links**

UniProt:

[Q05513](#) [Related reagents](#)

Entrez Gene:

[5590](#) PRKCZ [Related reagents](#)

Synonyms

PKC2

RRID

AB_808704

Specificity

Rabbit anti human protein kinase c zeta polyclonal antibody recognizes PKC ζ a serine/threonine kinase involved in a variety of cell processes including differentiation and proliferation. PKC ζ activation is involved in the mitogen-activated protein kinase cascade, transcriptional factor NF κ B activation, ribosomal S6-protein kinase signalling, and cell polarity.

In mice inhibition of expression of PHGDH by PKC ζ acts as a tumor suppressor and that loss of PKC ζ allows tumor cells to proliferate under glucose deprived conditions leading to poor prognosis ([Ma. et al.](#)).

Rabbit anti human protein kinase c zeta detects an epitope within the N-terminal (NT) region of PKC ζ . PKC ζ is a member of the atypical PKC subfamily.

PKC ζ may also be a potential therapeutic target in asthma, and a putative role in other pulmonary diseases, including chronic obstructive pulmonary disease (COPD).

**Histology Positive
Control Tissue**

Brain, cerebellum.

References

1. Hirai, T. & Chida, K. (2003) Protein kinase Czeta (PKCzeta): activation mechanisms and cellular functions. [J Biochem. 133 \(1\): 1-7.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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