



Qty: 100µg/400 µL

Rabbit anti-PKC ι /λ

Catalog No. 40-0600Z

Lot No.

Rabbit anti- PKC ι /λ

FORM

This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.423

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of mouse, rat and human PKC ι /λ

SPECIFICITY

This antibody reacts with the ~74 kDa PKC ι /λ protein. Bands of unknown origin may be observed at ~85 and ~55 kDa in some homogenates.

REACTIVITY

Reactivity has been confirmed with mouse spinal cord, adult and fetal mouse brain, and rat spinal cord homogenates.

Sample	Western Blotting	Immunoprecipitation
Mouse	++	0*
Rat	++	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

*Not detected under the condition tested.

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI400600Z

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BACKGROUND

PKCs are products of multiple genes and alternative splicing that can be subdivided into several major classes, including conventional (c) PKC isoforms (α , β I, β II and γ) and novel (n) PKC isoforms (δ , ϵ , η and θ) and the atypical PKC (aPKC) subfamily members (ζ , ι , and λ).¹ Vertebrates express two atypical PKCs, ζ and λ . PKC ι ² and λ ³ are human and mouse orthologs, respectively. aPKC ι is highly expressed in brain⁴ and lung². PKC ι shows a 72% overall identity to PKC ζ .⁵

REFERENCES

1. Osada S, et al. *Mol Cell Biol* 12:3930-3938, 1992.
2. Selbie LA, et al. *J Biol Chem* 268:24296-24302, 1993.
3. Akimoto K, et al. *J Biol Chem* 269:12677-12683, 1994.
4. Oster H, et al. *Brain Res Mol Brain Res* 127:79-88, 2004.
5. Nishizuka, et al. *FASEB J* 9:484-496, 1995.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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