

# PKCd(Phospho-Ser645) Antibody

Catalog No: #11296

Package Size: #11296-1 50ul #11296-2 100ul

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## Description

|                       |                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | PKCd(Phospho-Ser645) Antibody                                                                                                                                                                                                                                                           |
| Host Species          | Rabbit                                                                                                                                                                                                                                                                                  |
| Clonality             | Polyclonal                                                                                                                                                                                                                                                                              |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.<br>Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications          | WB IHC                                                                                                                                                                                                                                                                                  |
| Species Reactivity    | Human;Rat                                                                                                                                                                                                                                                                               |
| Specificity           | The antibody detects endogenous level of PKCd only when phosphorylated at serine 645.                                                                                                                                                                                                   |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                                                                                                                             |
| Immunogen Description | Peptide sequence around phosphorylation site of serine 645 (R-L-S(p)-Y-S) derived from Human PKCd.                                                                                                                                                                                      |
| Conjugates            | Unconjugated                                                                                                                                                                                                                                                                            |
| Target Name           | PKCd                                                                                                                                                                                                                                                                                    |
| Modification          | Phospho                                                                                                                                                                                                                                                                                 |
| Other Names           | KPCD; PKC-delta; PRKCD; kinase PKC-delta; nPKC-delta                                                                                                                                                                                                                                    |
| Accession No.         | Swiss-Prot: Q05655NCBI Protein: NP_006245.2                                                                                                                                                                                                                                             |
| Concentration         | 1.0mg/ml                                                                                                                                                                                                                                                                                |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                            |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                                                                                                                                                                                               |

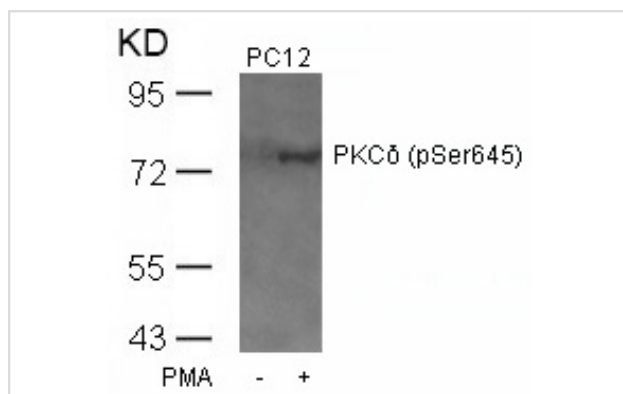
## Application Details

Predicted MW: 78kd

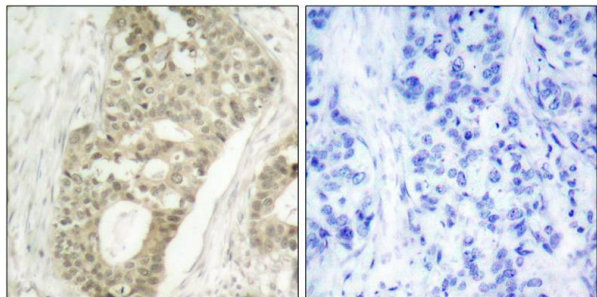
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

## Images



Western blot analysis of extracts from PC12 cells untreated or treated with PMA using PKCd(Phospho-Ser645) Antibody #11296.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PKCδ(Phospho-Ser645) Antibody #11296(left) or the same antibody preincubated with blocking peptide(right).

## Background

This is calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters. May play a role in antigen-dependent control of B-cell function. Phosphorylates MUC1 in the C-terminal and regulates the interaction between MUC1 and beta-catenin.

Kei Sakamoto, et.al. (2003) *Am J Physiol Endocrinol Metab* ; 285: E1081 - E1088.

Ling Zhang, et.al. (2004) *J. Biol. Chem* ; 279: 28315 - 28319.

Kristof Van Kolen et.al. (2006) *FEBS J* ; 273: 1843 - 1854.

Martin Villalba, et.al. (2002) *J. Cell Biol* ; 157: 253.

## Published Papers

M. Uenoyama, S. Ogata, K. Nakanishi et al., Protein kinase C mRNA and protein expressions in hypobaric hypoxia-induced cardiac hypertrophy in rats., *Acta Physiol.*, 198:431— C440(2010)

[PMID:19995357](#)

et al., Protein kinase C mRNA and protein expressions in hypobaric hypoxia-induced cardiac hypertrophy in rats. In *Acta Physiol (Oxf)* on 2010 Apr by M Uenoyama, S Ogata, et al.. PMID:19995357, , (2010)

[PMID:19995357](#)

et al., PKC θ -Mediated Ca<sup>2+</sup>/NF-AT Signalling Pathway May Be Involved in T-cell Immunosuppression in Coal-Burning Arsenic-Poisoned Population. In *Environ Toxicol Pharmacol* on 2017 Oct by Qibing Zeng , Peng Luo, et al.. PMID: 28823652, , (2017)

[PMID:28823652](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.