

## PKCth(Phospho-Ser676) Antibody

Catalog No: #11297

Package Size: #11297-1 50ul #11297-2 100ul

## Description

|                       |                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | PKCth(Phospho-Ser676) 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 IF                                                                                                                                                                                                                                                                               |
| Species Reactivity    | Hu Ms Rt                                                                                                                                                                                                                                                                                |
| Specificity           | The antibody detects endogenous level of PKCth only when phosphorylated at serine 676.                                                                                                                                                                                                  |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                                                                                                                             |
| Immunogen Description | Peptide sequence around phosphorylation site of serine 676 (R-L-S(p)-F-A) derived from Human PKCth.                                                                                                                                                                                     |
| Conjugates            | Unconjugated                                                                                                                                                                                                                                                                            |
| Target Name           | PKCth                                                                                                                                                                                                                                                                                   |
| Modification          | Phospho                                                                                                                                                                                                                                                                                 |
| Other Names           | KPCT; PKC-theta; PKCQ; PRKCQ; PRKCT                                                                                                                                                                                                                                                     |
| Accession No.         | Swiss-Prot: Q04759NCBI Protein: NP_006248.1                                                                                                                                                                                                                                             |
| 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

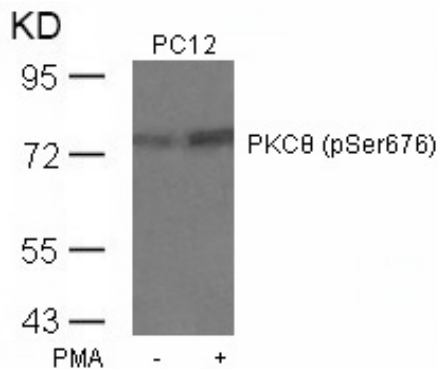
Predicted MW: 80kd

Western blotting: 1:500~1:1000

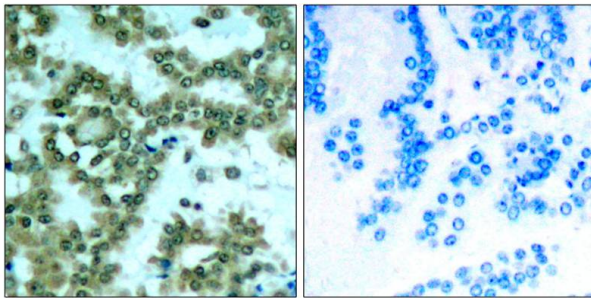
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

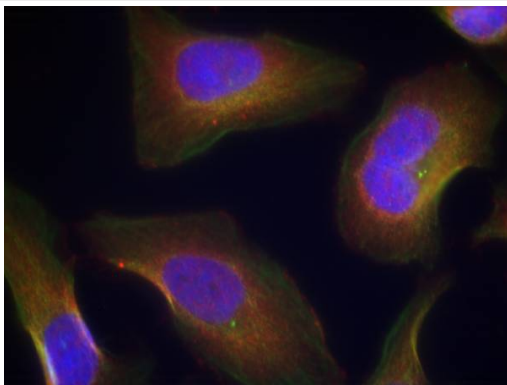
## Images



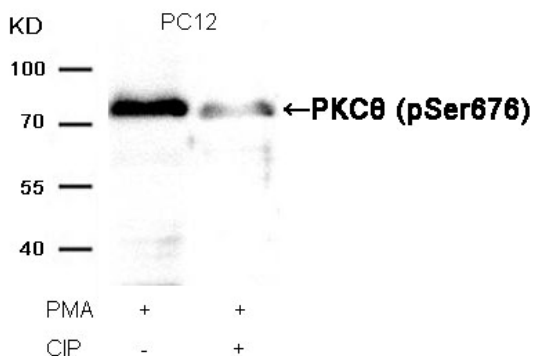
Western blot analysis of extracts from PC12 cells untreated or treated with PMA using PKCth(Phospho-Ser676) Antibody #11297.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using PKCth(Phospho-Ser676) Antibody #11297(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using PKCth(Phospho-Ser676) Antibody #11297.



Western blot analysis of extracts from PC12 cells, treated with PMA or calf intestinal phosphatase (CIP), using PKCθ (Phospho-Ser676) Antibody #11297.

## Background

This is a calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. Essential for T-cell receptor (TCR)-mediated T-cell activation, but is dispensable during TCR-dependent thymocyte development. Links the TCR signaling complex to the activation of NF-kappa-B in mature T lymphocytes. Required for interleukin-2 (IL2) production.

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

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

Jie Zhang, et al. (2004) J. Biol. Chem ; 279: 22118 - 22123.

Castro AF, et al. (1998) Am J Physiol Cell Physiol; 275: C113 - C119.

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