

PKCth(Ab-676) Antibody

Catalog No: #21289

Package Size: #21289-1 50ul #21289-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	PKCth(Ab-676) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total PKCth protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 674~678 (R-L-S-F-A) derived from Human PKCth.
Target Name	PKCth
Other Names	nPKC-theta
Accession No.	Swiss-Prot: Q04759NCBI Protein: NP_006248.1
Uniprot	Q04759
GeneID	5588;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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

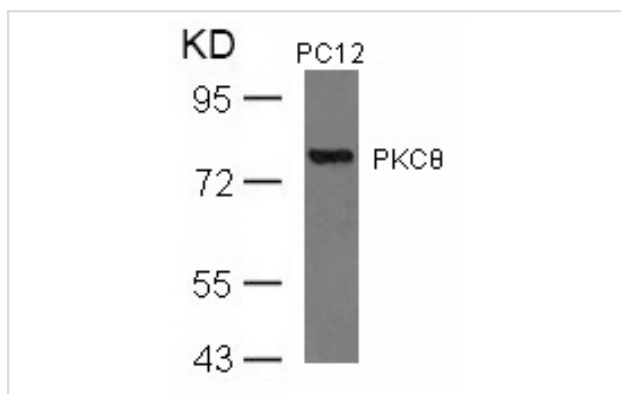
Predicted MW: 80kd

Western blotting: 1:500~1:1000

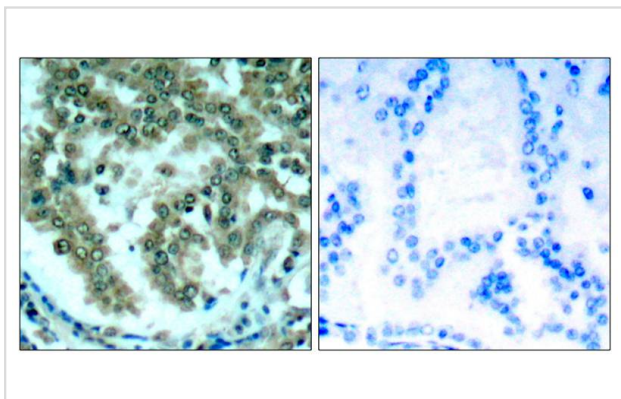
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

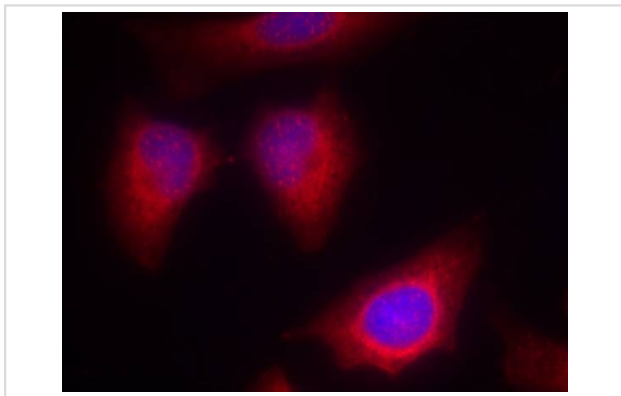
Images



Western blot analysis of extracts from PC12 cells using PKCth(Ab-676) Antibody #21289.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using PKCth(Ab-676) Antibody #21289(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using PKCth(Ab-676) Antibody #21289.

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. 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.

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.

Note: This product is for in vitro research use only