PKCd(Phospho-Ser645) Antibody

Catalog No: #11296

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

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

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. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Rt
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 Mg2+ and Ca2+), 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.

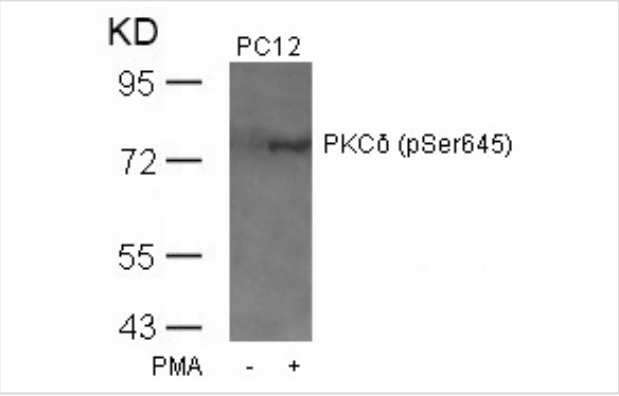
Application Details

Predicted MW: 78kd

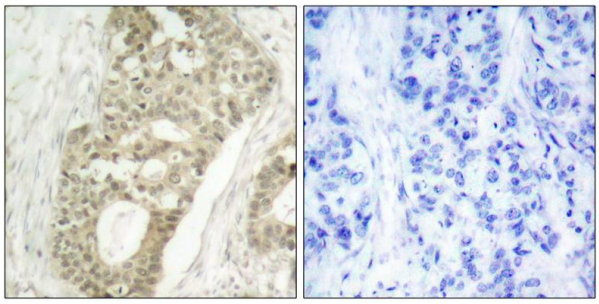
Western blotting: 1:500~1:1000

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 PKCd(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 el at., Protein kinase C mRNA and protein expressions in hypobaric hypoxia-induced cardiac hypertrophy in rats., Acta Physiol., 198:431η— C440(2010)

PMID:19995357

el at., Protein kinase C mRNA and protein expressions in hypobaric hypoxiaι ζ• nduced cardiac hypertrophy in rats.In Acta Physiol (Oxf) on 2010 Apr by M Uenoyama, S Ogata,et al..PMID:19995357, , (2010)

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el at., PKC θ -Mediated Ca 2+/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.