PKCθ(Phospho-Ser676) Antibody

#11297

Catalog Number: 11297-1, 11297-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. :Q04759

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human PKCθ around the phosphorylation site of serine 676 (R-L-Sp-F-A).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

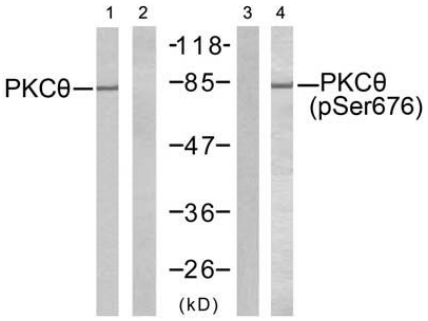
Specificity/Sensitivity:PKCθ (phospho-Ser676) antibody detects endogenous levels of PKCθ only whenphosphorylated at serine 676.

Reactivity: Human,Mouse,Rat

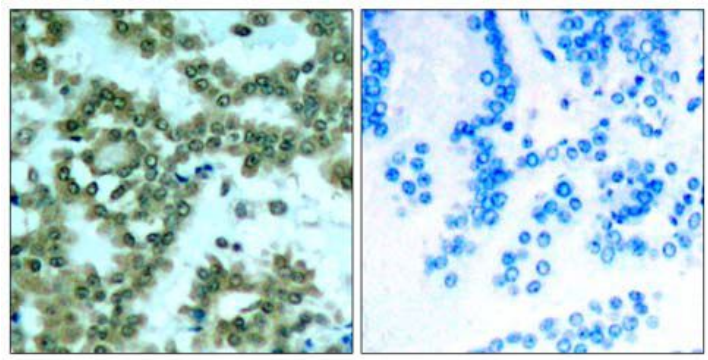
Applications:

Predicted MW: 80 kd

WB: 1:500~1:1000 IHC 1:50~1:200 IF:1:100~1:200

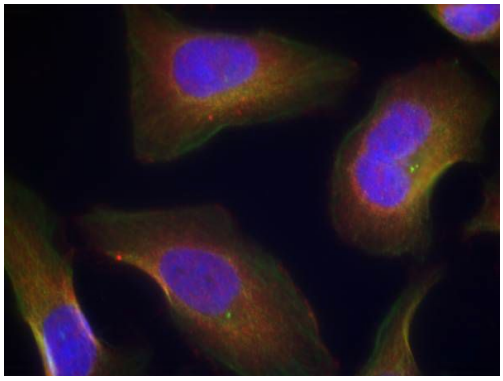


Western blot analysis of extracts from Jurkat cells untreated or treated with PMA (1ng/ml, 5min), using PKCθ (Ab-676) antibody (#21289, Line 1 and 2) and PKCθ (phospho-Ser676) antibody (#11297, Line 3 and 4).



P-Peptide − +

Immunohistochemical analysis of paraffin-embeddedhuman lung carcinoma tissue, using PKCθ (phospho-Ser676) antibody (#11297).



Immunofluorescence staining of methanol-fixed HeLa cells using

PKCθ (phospho-Ser676) antibody (#11297,Red)

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

References：

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