

PKC θ (Phospho Ser676) Rabbit pAb

CatalogNo: YP0231 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 82kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:5000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human PKC that around the phosphorylation site of Ser676. AA range:643-692

Specificity

Phospho-PKC θ (S676) Polyclonal Antibody detects endogenous levels of PKC θ protein only when phosphorylated at S676. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RLSFA

Target Information

Gene name PRKCQ

Protein Name Protein kinase C theta type

Organism	Gene ID	UniProt ID
Human	5588 ;	Q04759 ;
Mouse	18761 ;	Q02111 ;
Rat		Q9WTQ0 ;

Cellular Localization

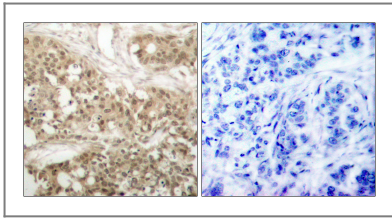
Cytoplasm. Cell membrane; Peripheral membrane protein. In resting T-cells , mostly localized in cytoplasm. In response to TCR stimulation , associates with lipid rafts and then localizes in the immunological synapse.

Tissue specificity Expressed in skeletal muscle , T-cells , megakaryoblastic cells and platelets.

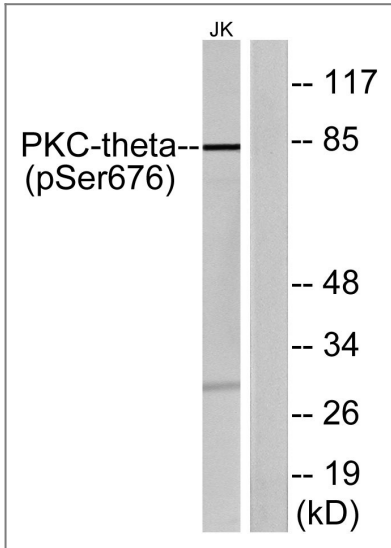
Function

Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Magnesium. ,Domain:The C1 domain , containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B) , is the diacylglycerol sensor and the C2 domain is a non-calcium binding domain. ,enzyme regulation:Three specific sites; Thr-538 (activation loop of the kinase domain) , Ser-676 (turn motif) and Ser-695 (hydrophobic region) , need to be phosphorylated for its full activation. ,Function: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. ,Function: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. ,PTM:Autophosphorylation at Thr-219 is required for targeting to the TCR and cellular function of PKC upon antigen receptor ligation. ,similarity:Belongs to the protein kinase superfamily. ,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. ,similarity:Contains 1 AGC-kinase C-terminal domain. ,similarity:Contains 1 C2 domain. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers. ,subunit:Interacts with TXNL2/PICOT. ,tissue specificity:Skeletal muscle , megakaryoblastic cells and platelets. ,

Validation Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PKC theta (Phospho-Ser676) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with PMA 200nM 30', using PKC theta (Phospho-Ser676) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
PKC θ (Phospho Ser676) Rabbit pAb

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