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**[ Marker Primary Antibody ]**

# Rabbit Anti-PKC theta/Cy3 Conjugated antibody

**Catalog Number: SL4161R-Cy3**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-PKC theta/Cy3 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human PKC theta |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Applications:** | IF=1:100-500<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Rat(predicted:Human,Mouse,Dog,Cow,Horse) |
| **Background:** | 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.<br>**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. 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 |

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| | tumor promoters.<br>**Subcellular Location:** Skeletal muscle, megakaryoblastic cells and platelets.<br>**Post-translational modifications:** Autophosphorylation at Thr-219 is required for targeting to the TCR and cellular function of PKC upon antigen receptor ligation.<br>**Similarity:** Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.<br>Contains 1 AGC-kinase C-terminal domain.<br>Contains 1 C2 domain.<br>Contains 2 phorbol-ester/DAG-type zinc fingers.<br>Contains 1 protein kinase domain.<br>**Database links:**<br>**Entrez Gene:** 5588 Human<br>**Entrez Gene:** 18761 Mouse<br>**Entrez Gene:** 85420 Rat<br>Omim: 600448 Human<br>**SwissProt:** Q04759 Human<br>**SwissProt:** Q02111 Mouse<br>**SwissProt:** Q9WTQ0 Rat<br>**Unigene:** 498570 Human<br>**Unigene:** 329993 Mouse<br>**Unigene:** 225125 Rat<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |