

## OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 <u>US-info@acris-antibodies.com</u>

## AP01857PU-N OriGene EU

Acris Antibodies GmbH Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## Polyclonal Antibody to PKC-pan pThr497 - Aff - Purified

| Catalog No.:        | AP01857PU-N   |
|---------------------|---|
| Quantity:           | 0.1 mg  |
| Concentration:      | 1.0 mg/ml   |
| Background:         | Protein Kinase C (PKC) isoforms are serine/threonine kinases involved in signal transduction pathways that govern a wide range of physiological processes including differentiation, proliferation, gene expression, brain function, membrane transport and the organization of cytoskeletal and extracellular matrix proteins. Increasing evidence from studies using in vitro and in vivo systems points to PKC as a key regulator of critical cell cycle transitions, including cell cycle entry and exit and the G1 and G2 checkpoints. PKC-mediated control of these transitions can be negative or positive, depending on the timing of PKC activation during the cell cycle and on the specific PKC isozymes involved. There have been at least 12 different PKC isoforms identified in humans to date, including alpha, beta I, beta II, gamma, delta, epsilon, zeta, eta, theta, iota, lambda, and mu. |
| Host:               | Rabbit  |
| Format:             | <ul> <li>State: Liquid purified Ig fraction (&gt; 95% pure by SDS-PAGE).</li> <li>Purification: Affinity Chromatography using epitope-specific immunogen.</li> <li>Buffer System: Phosphate buffered saline (PBS), pH~7.2</li> <li>Preservatives: 0.05% Sodium Azide</li> </ul>   |
| Applications:       | Western blot: 1/500-1/1000.<br>Immunohistochemistry on paraffin sections: 1/50-1/200.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should<br>be determined by the user.  |
| Molecular Weight:   | ~75 to 88 kDa   |
| Specificity:        | This antibody detects endogenous levels of PKC PKC $\alpha$ , $\beta$ I, $\beta$ II, $\gamma$ , $\delta$ , $\epsilon$ , $n$ , $\zeta$ and $\theta$ isoforms only when phosphorylated at a residue homologous to threonine 497 of human PKC $\alpha$ .   |
| Species Reactivity: | Tested: Human.<br>Expected from sequence similarity: Mouse and Rat.   |
| Storage:            | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: One year from despatch.  |

**For research and in vitro use only. Not for diagnostic or therapeutic work.** Material Safety Datasheets are available at www.acris-antibodies.com or on request. Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



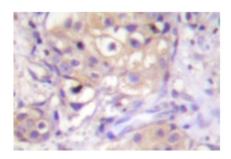
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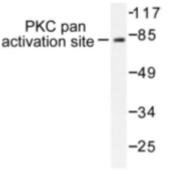
**Pictures:** 

## AP01857PU-N: Polyclonal Antibody to PKC-pan pThr497 - Aff - Purified

Immunohistochemistry (IHC) analyzes of PKC-pan antibody (Cat.-No.: AP01857PU-N) in paraffin-embedded human breast carcinoma tissue.



**Western blot** (WB) analysis of PKC-pan antibody (Cat.-No.: AP01857PU-N) in extracts from NIH/3T3 cells treated with PMA 250ng/ml 15'.



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