

## Recombinant Phospho-PKCα (Thr638) Monoclonal Antibody

catalog number: AN300149L

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

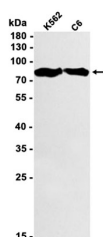
|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| <b>Reactivity</b>   | Human;Mouse;Rat                                                                           |
| <b>Immunogen</b>    | A synthetic phosphopeptide corresponding to residues around Thr638 of human Phospho-PKCα. |
| <b>Host</b>         | Rabbit                                                                                    |
| <b>Isotype</b>      | IgG                                                                                       |
| <b>Clone</b>        | 4B15                                                                                      |
| <b>Purification</b> | Protein A                                                                                 |
| <b>Buffer</b>       | 0.2 μm filtered solution in PBS                                                           |

### Applications

### Recommended Dilution

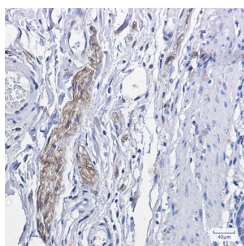
WB: 1:2000-1:20000; IHC-P: 1:100-1:200

### Data

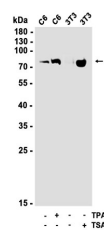


Western blot analysis of extracts from K562, C6 cells at 1:1000.

**Observed-MW:80 kDa**  
**Calculated-MW:77 kDa**



Immunohistochemical analysis of paraffin-embedded human colon cancer .



Western blot analysis of extracts from various cell lines, untreated (- ) or treated (+) as indicated with TPA or TSA, at 1000.

**Observed-MW:80 kDa**  
**Calculated-MW:77 kDa**

### Preparation & Storage

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| <b>Storage</b>  | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| <b>Shipping</b> | Ice bag                                                         |

### Background

### For Research Use Only

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Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq, Jul 2008]