

Product Data Sheet

Purified anti-PKC α Phospho (Thr638)

Catalog # / Size: 649101 / 25 μ l (5 Western blots)
 649102 / 100 μ l (20 Western blots)

Clone: Poly6491

Isotype: Rabbit polyclonal

Immunogen: Modified synthetic peptide

Reactivity: Human and Mouse PKC α Phospho (Thr638)

Preparation: This antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

Storage: Upon receipt, store frozen at -20°C.

Applications:

Applications: WB - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 μ l antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The optimal concentration should be determined by titration for each individual assay of interest.

Description: Protein kinase C alpha (PKC α), also known as PRKCA, refers to both a human gene and the protein that is encoded by it. 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 Ca²⁺ handling in myocytes. The purified anti-PKC α Phospho (Thr638) antibody detects PKC α only when phosphorylated at threonine 638.

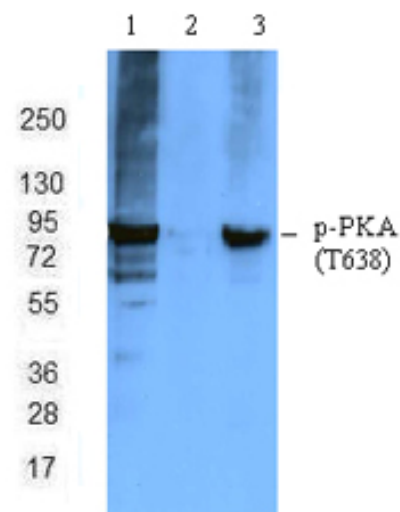
Antigen References:

1. Seo HR, *et al.* 2004. *Exp. Mol. Med.* 36:292.
2. Wientzek M, *et al.* 1997. *Mol. Cell. Biochem.* 166:11.
3. Baier G and Wagner J. 2009. *Curr. Opin. Cell Biol.* 21:262.
4. Reyland NE. 2009. *Front. Biosci.* 14:2386.

Related Products: **Product**
 HRP Donkey anti-rabbit IgG (minimal x-reactivity)

Clone
 Poly4064

Application
 ELISA, IHC, WB



Jurkat total cell lysates were resolved by electrophoresis, transferred to nitrocellulose and probed either with anti-phosphor-PKA (T638) antibody solely (Lane 1), anti-phosphor-PKA (T638) antibody plus phosphor-peptide (Lane 2), or with the anti-phosphor-PKA (T638) antibody plus non-phosphor-peptide (Lane 3). Proteins were visualized using an HRP donkey anti-rabbit secondary antibody and a chemiluminescence detection system.



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