

Datasheet for ABIN7300438  
**anti-CAMK1 antibody (pSer177)**

## 3 Images

[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | CAMK1  |
| Binding Specificity: | pSer177  |
| Reactivity:          | Human, Mouse, Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This CAMK1 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF),<br>Immunochromatography (IC) |

## Product Details

|                  |   |
|------------------|---|
| Immunogen:       | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CaMK1 alpha. |
| Specificity:     | Recognizes endogenous levels of CaMK1 alpha (pT177) protein.  |
| Characteristics: | Rabbit polyclonal antibody to CaMK1 alpha (pT177)   |
| Purification:    | The antibody was purified by immunogen affinity chromatography.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | CAMK1  |
| Alternative Name: | CaMK1 alpha ( <a href="#">CAMK1 Products</a> ) |

## Target Details

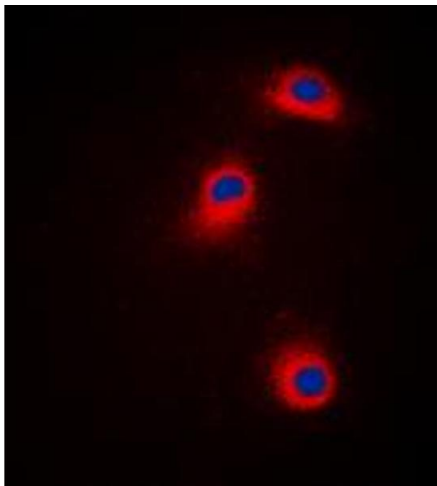
|             |  |
|-------------|--|
| Background: | Calcium/calmodulin-dependent protein kinase type 1, CaM kinase I, CaM-KI, CaM kinase I alpha, CaMKI-alpha  |
| Gene ID:    | 8536, 52163, 171503  |
| UniProt:    | <a href="#">Q14012</a> , <a href="#">Q91YS8</a> , <a href="#">Q63450</a>   |
| Pathways:   | <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Smooth Muscle Cell Migration</a> |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | WB (1:500 - 1:1000), IH (1:100 - 1:200), IF/IC (1:100 - 1:500) |
| Restrictions:      | For Research Use only  |

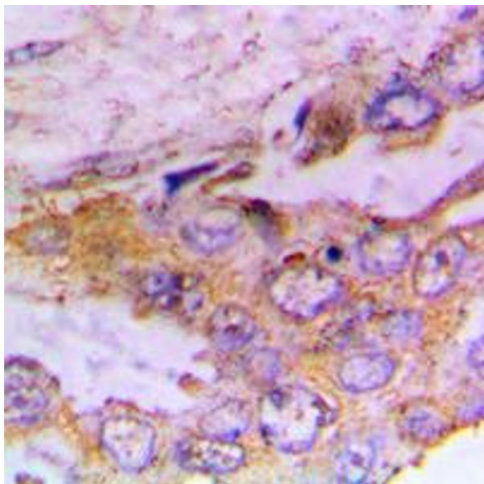
## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | Liquid in 0.42 % Potassium phosphate, 0.87 % Sodium chloride, pH 7.3, 30 % glycerol, and 0.01 % sodium azide.          |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.                       |
| Expiry Date:       | 12 months  |



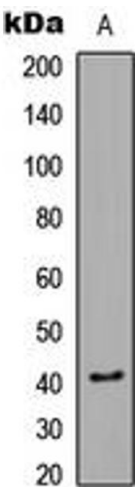
Immunofluorescence

**Image 1.** Immunofluorescent analysis of CaMK1 alpha (pT177) staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry

**Image 2.** Immunohistochemical analysis of CaMK1 alpha (pT177) staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western Blotting

**Image 3.** Western blot analysis of CaMK1 alpha (pT177) expression in Jurkat Insulin-treated (A) whole cell lysates.