

# Human Casein kinase 1 alpha/CSNK1A1 antibody

Catalog Number: ATGA0549

## PRODUCT INFORMATION

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**Catalog number**

ATGA0549

**Clone No.**

AT2E2

**Product type**

Monoclonal antibody

**UnitProt No.**

P48729

**NCBI Accession No.**

NP\_001883

**Alternative Names**

Casein kinase 1 alpha 1, CK1, CK1a, CK1alpha, CK1a, CK1alpha, Clock regulator kinase

**Additional Information**

This product was produced from tissue culture supernatant.

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human Casein Kinase 1 alpha (1-337aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Casein Kinase 1 alpha belongs to the protein kinase superfamily, CK1 Ser/Thr protein kinase family, Casein kinase I subfamily. CK1 isoforms (alpha, beta, gamma, delta, epsilon) and their splice variants are involved in diverse cellular processes including membrane trafficking, circadian rhythm, cell cycle progression, chromosome segregation, apoptosis and cellular differentiation. Perhaps it can phosphorylate a large number of proteins and is involved in Wnt signaling where it phosphorylates CTNNB1 on Ser45. Casein kinase 1 alpha also interacts with the Axin complex.

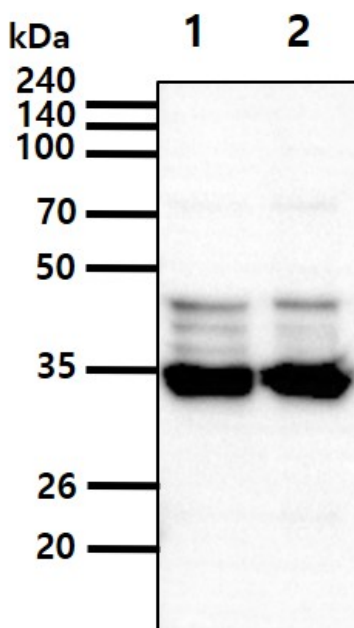
### General References

Knippschild U, et al., (2005) *Onkologie*. 28(10):508-14.

Katoh M., (2007) *Clin Cancer Res*. 13(14):4042-5.

## DATA

### Western blot analysis (WB)

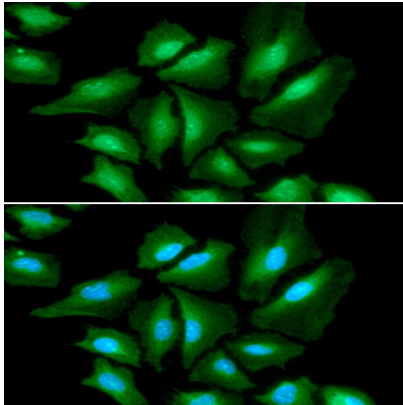


The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Casein kinase 1 alpha antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
Lane 1.: HeLa cell lysate  
Lane 2.: MCF7 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of Casein kinase 1 alpha in HeLa cells. The cell was stained with ATGA0549 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).