

# Human Pin1 antibody

Catalog Number: ATGA0591

## PRODUCT INFORMATION

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**Catalog number**

ATGA0591

**Clone No.**

3G8

**Product type**

Monoclonal antibody

**UnitProt No.**

Q13526

**NCBI Accession No.**

NP\_006212

**Alternative Names**

Protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1, PIN1, Peptidyl-prolyl cis-trans isomerase NIMAinteracting 1, EC 5.2.1.8, Rotamase Pin1, PPlase Pin1, DOD, uBL5, PIN1, PPlase, EC 5.2.1.8, Rotamase Pin1, PPlase Pin1, Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

**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

**Formulation**

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

**Immunogen**

Recombinant human Pin1 (1-163aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB

# Human Pin1 antibody

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## Usage

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

## 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

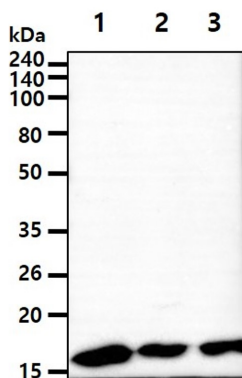
Human Pin 1 is a peptidyl-prolyl cis/trans isomerase (PPIase) that interacts with NIMA and essential for cell cycle regulation. Pin1 is nuclear PPIase containing a WW protein interaction domain, and is structurally and functionally related to Ess1/Ptf1, an essential protein in budding yeast. PPIase activity is necessary for Ess1/Pin1 function in yeast. Pin1 is thus an essential PPIase that regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Substrates of Pin1 include the mitotic regulators (Cdc25 phosphatase and NIMA, Plk I, Wee, and Myt1 kinases), several transcription factors like beta-Catenin, c-Jun, and the tumor suppressor protein p53, and some specific proteins like the RNA Pol II, the cytoskeleton protein tau, and the G1/S protein Cyclin D1.

### General References

- Wulf GM, et al., (2002) J Biol. Chem. 277(50):47976-47979.
- Hamdane M, et al., (2002) J Mol Neurosci. 19(3):275-287.
- Zheng H, et al., (2002) Nature 419(6909):853-857.
- Lu KP. et al., (1996) Nature 380(6574):544-547.
- Campbell HD, et al., (1997) Genomics 44(2):157-162.

## DATA

### Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Pin1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
Lane 1.: 293T cell lysate  
Lane 2.: HeLa cell lysate  
Lane 3.: Jurkat cell lysate