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## **Human Pin1 antibody**

Catalog Number: API0622

## **PRODUCT INFORMATION**

## Catalog number

API0622

#### 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 NIMA-interacting 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

## **PRODUCT SPECIFICATION**

#### **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 Pin1 (1-163aa) purified from E. coli

## Isotype

IgG1 kappa

#### **Purification Note**

By protein-G affinity chromatography

## **Application**

ELISA, WB, FACS

## **Usage**

The antibody has been tested by ELISA, Western blot and FACS 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**

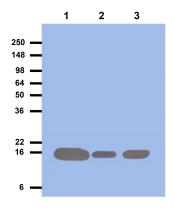
Human Pin 1 is a peptidyl-prolyl cis/trans isomerase (PPlase) that interacts with NIMA and essential for cell cycle regulation. Pin1 is nuclear PPlase containing a WW protein interaction domain, and is structurally and functionally related to Ess1/Ptf1, an essential protein in budding yeast. PPlase activity is necessary for Ess1/Pin1 function in yeast. Pin1 is thus an essential PPlase 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 likebeta-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)



Lane 1.: 293T cell lysate Lane 2.: HeLa cell lysate Lane 3: Jurkat cell lysate

The cell lysates(50ug) were resolved by SDS-PAGE, transferred to

conjugated to HRP and an ECL detection system.

PVDF membrane and probed with anti-human Pin1 antibody (1:500).

Proteins were visualized using a goat anti-mouse secondary antibody

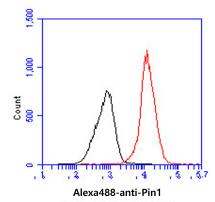
Flow cytometry (FACS)



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Flow cytometry analysis of Pin1 in Jurkat cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

