

Human Pin1 antibody

Catalog Number: ATGA0591

PRODUCT INFORMATION

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

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

Catalog Number: ATGA0591

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

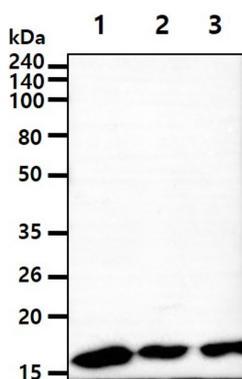
Human Pin 1 is a peptidyl-prolyl cis/trans isomerase (PPIase) that interacts with NIMA and essential for cell cycle regulation. Pin1 is nuclear PPIase containing a WW protein interaction domain, and is structurally and functionally related to Ess1/Ptf1, an essential protein in budding yeast. PPIase activity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