TEST_Human Antibody

Catalog Number: ATGA0000

PRODUCT INFORMATION

Catalog number
ATGA0000

Clone No.
3G8

Product type
Monoclonal antibody

UnitProt No.
Q9NVS9

NCBI Accession No.
NP_006212

Alternative Names
Protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1, PIN1, Peptidyl-prolyl cis-transisomerase NIMA-interacting 1, EC 5.2.1.8, Rotamase Pin1, PPIase Pin1, DOD, uBL5, PIN1,PPIase, EC 5.2.1.8, Rotamase Pin1, PPIase Pin1, Peptidyl-prolyl cis-trans isomeraseNIMA-interacting 1

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
WB, ICC/IF, IHC, FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF, FACS and IHC 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

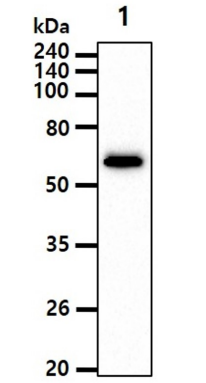
Human Pin 1 is a peptidyl-prolyl cis/trans isomerase (PPIase) that interacts with NIMA and essential forcell cycle regulation. Pin1 is nuclear PPIase containing a WW protein interaction domain, and is structurallyand functionally related to Ess1/Ptf1, an essential protein in budding yeast. PPIase activity is necessaryfor Ess1/Pin1 function in yeast. Pin1 is thus an essential PPIase that regulates mitosis presumably byinteracting with NIMA and attenuating its mitosis-promoting activity. Substrates of Pin1 include the mitoticregulators (Cdc25 phosphatase and NIMA, PLk I, Wee, and Myt1 kinases), several transcription factorslikebeta-Catenin, c-Jun, and the tumor suppressor protein p53, and some specific proteins like the RNA PolII, the cytoskeleton protein tau, and the G1/S protein Cyclin D1.

General References

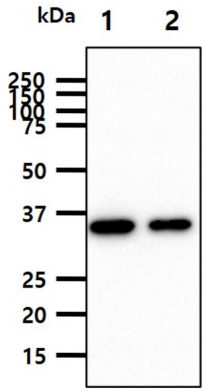
Wulf GM, et al., (2002) J Biol. Chem. 277(50):47976-47979. Hamdane M, et al., (2002) J Mol Neurosci. 19(3):275-287. Zheng H, et al., (2002) Nature 419(6909):853-857. Lu KP. et al., (1996) Nature 380(6574):544-547. Campbell HD, et al., (1997) Genomics 44(2):157-162.

DATA

Western blot analysis (WB)



The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Coactosin-like Protein 1/COTL1 antibody (1:500). Proteins were visualized using a goat antimouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PNPO antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: A549 cell lysate Lane 2.: HepG2 cell lysate

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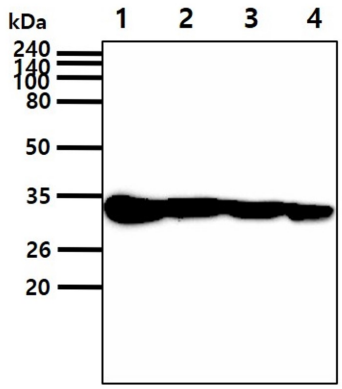
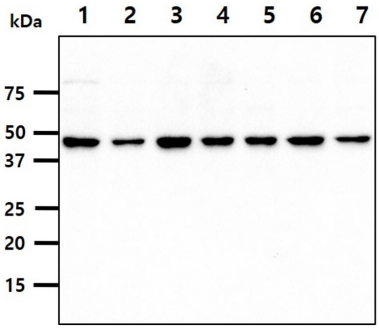
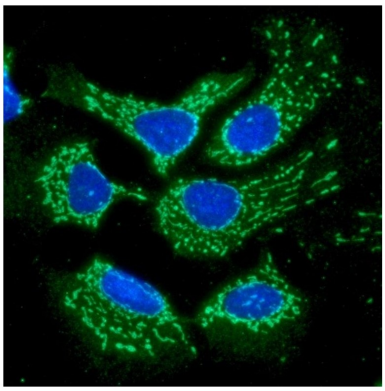


The recombinant protein (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NM23-H1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant human NME1 protein Lane 2.: Recombinant human NME2 protein Lane 3.: Recombinant human NME3 protein Lane 4.: Recombinant human NME4 protein

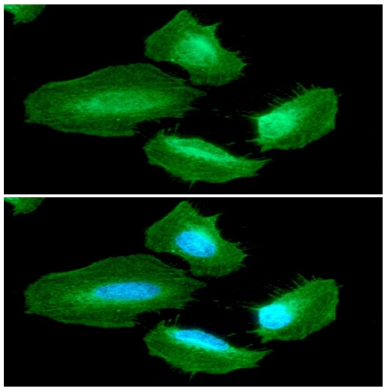


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NM23-H1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: A549 cell lysate Lane 3.: Jurkat cell lysate Lane 4.: HepG2 cell lysate Lane 5.: MCF7 cell lysate Lane 6.: PC3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



MagnifyICC/IF analysis of NM23-H1 in HeLa cells. The cell was stained with ATGA0585 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of NM23-H1 in A549 cells. The cell was stained with ATGA0585 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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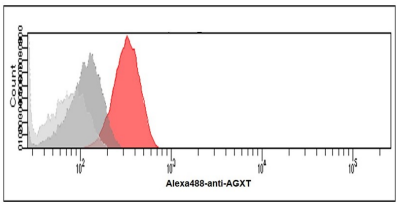
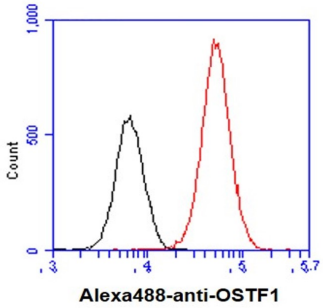
Flow cytometry (FACS)

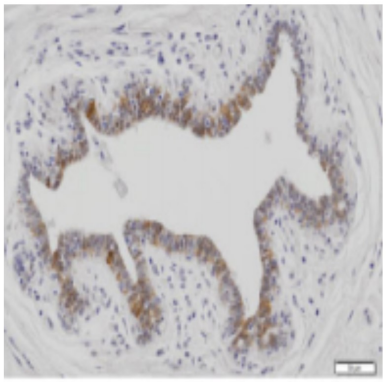


Flow cytometry analysis of IRF5 in THP-1 cells. The cell was stained with ATGA0518 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



Flow cytometry analysis of Coactosin-like Protein 1/COTL1 in HeLa cells. The cell was stained with ATGA0576 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

Immunohistochemistry (IHC)



Paraffin embedded sections of human cervical cancer tissue were incubated with anti-human KRT5 (1:200) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)