PIN1

Mouse Anti-Human Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 Clone 3G8 mAb

Catalog No.	CSI15573A CSI15573B	**Quantity:**	50 µl 100 µl

Alternate Names: DOD, UBL5, peptidyl-prolyl cis/trans isomerase, NIMA-interacting, prolyl isomerase, protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1, protein (peptidylprolyl cis/trans isomerase) NIMA-interacting 1

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 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.

Concentration: 1 mg/ml

Gene ID: 5300

Protein Accession No.: NP_006212

Host: Mouse

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

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human Pin1 mAb, clone 3G8, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Pin1 protein.

Conjugate: Unconjugated

Formulation: Liquid. Supplied in Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: By protein-G affinity chromatography

Cross-Reactivity: Human

Applications: ELISA, WB (Cell lysate)

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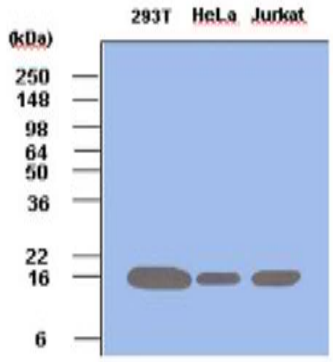
Application Notes: The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500 ~ 1,000. Recommended starting dilution is 1:500.

Storage & Stability: The antibody was purified from mouse ascitic fluids by protein-G affinity chromatography. Can be stored at 4□ for up to one month, but store at -20□ for long term storage. **Avoid repeated freeze-thaw cycles**.

Western Blot Analysis: Cell lysates of 293T, HeLa and Jurkat (each 50ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Pin1 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



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