

Product: Anti-Pin1
Catalog #: 01-2401
Amount: 200 µl

CATEGORY: Mouse monoclonal
CLONE DETERMINATION: 3G8
IMMUNOGLOBULIN CLASS: Mouse IgG₁ heavy chain and kappa light chain
FORM: Purified, in PBS, pH 7.4, containing 0.1% sodium azide
IMMUNOGEN: Recombinant human Pin1 (1-163 aa) purified from *E. coli*
PURIFICATION: Protein G affinity chromatography, from ascites
DESCRIPTION/SPECIFICITY: 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 β-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.

ANTIGEN RECOGNIZED IN**SPECIES** (tested so far):**APPLICATION** (tested so far):**WORKING DILUTION:****STORAGE:**

Human

ELISA, Immunoblotting (western, ECL)

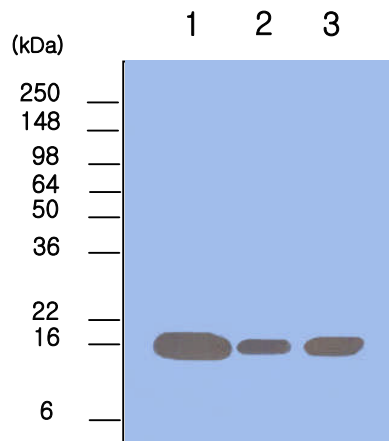
Western Blot: 1:100-1:200

Optimal dilution should be performed by serial dilution

2-8°C for immediate use; or at -20°C (aliquot)

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

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Western blot analysis

Lane 1 : 293T Lane 2 : HeLa Lane 3 : Jurkat

Cell lysates of 293T, HeLa and Jurkat (each 50ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Pin1 (1:100). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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