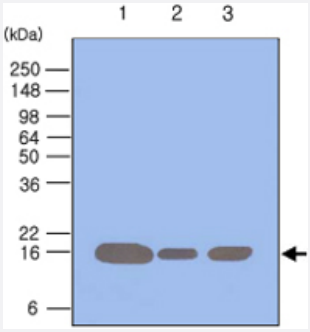
PIN1 monoclonal antibody, clone 3G8

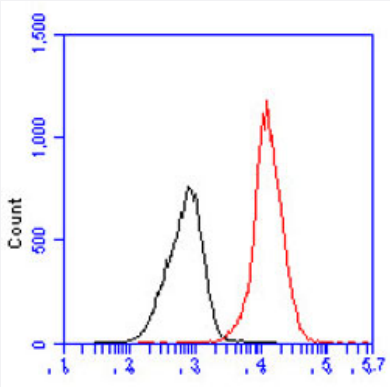
Catalog # MAB1080 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of 293T , HeLa and Jurkat cell lysates (each 50 ug) were resolved by SDS - PAGE , transferred to PVDF membrane and probed with PIN1 monoclonal antibody , clone 3G8 (1 : 500) (Cat # MAB1080). Proteins were visualized using a goat anti - mouse secondary antibody conjugated to HRP and an ECL detection system.



Flow Cytometry

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

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant PIN1.
Immunogen	Recombinant protein corresponding to amino acids 1-163 of human PIN1.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Isotype	IgG1, kappa
Recommend Usage	ELISA Flow Cytometry Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of 293T , HeLa and Jurkat cell lysates (each 50 ug) were resolved by SDS - PAGE , transferred to PVDF membrane and probed with PIN1 monoclonal antibody , clone 3G8 (1 : 500) (Cat # MAB1080). Proteins were visualized using a goat anti - mouse secondary antibody conjugated to HRP and an ECL detection system.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

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

Gene Info — PIN1

Entrez GeneID	5300
Protein Accession#	NP_006212
Gene Name	PIN1
Gene Alias	DOD, UBL5
Gene Description	peptidylprolyl cis/trans isomerase, NIMA-interacting 1
Omim ID	601052
Gene Ontology	Hyperlink

Gene Summary	The human PIN1 gene encodes an essential nuclear peptidylprolyl cis-trans isomerase (PPIase; EC 5.2.1.8) involved in regulation of mitosis. PIN1 belongs to a class of PPIases that includes the E. coli parvulin, yeast Ess1, and Drosophila dodo (dod) gene products (Lu et al., 1996 [PubMed 8606777]).[supplied by OMIM
Other Designations	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

Publication Reference

- Analysis of binding interfaces of the human scaffold protein AXIN1 by peptide microarrays.

  Harnoš J, Ryneš J, Víšková P, Trantírková SF, Ešner LB, Trantírek L, Bryja V.

  The Journal of Biological Chemistry 2018 Oct; 293(42):16337.

  Application: Peptide array, Recombinant protein

- Pin1: a therapeutic target in Alzheimer neurodegeneration.

  Hamdane M, Smet C, Sambo AV, Leroy A, Wieruszeski JM, Delobel P, Maurage CA, Ghestem A, Wintjens R, Begard S, Sergeant N, Delacourte A, Horvath D, Landrieu I, Lippens G, Buee L.

  Journal of Molecular Neuroscience 2002 Dec; 19(3):275.

  Application: WB-Ce, WB-Ti, Human, SY5Y cells, Brain

- Role of Pin1 in the regulation of p53 stability and p21 transactivation, and cell cycle checkpoints in response to DNA damage.

  Wulf GM, Liou YC, Ryo A, Lee SW, Lu KP.

  The Journal of Biological Chemistry 2002 Dec; 277(50):47976.

  Application: WB-Ce, Human, Mouse, T47D cells, MEFs

- The prolyl isomerase Pin1 reveals a mechanism to control p53 functions after genotoxic insults.

  Zacchi P, Gostissa M, Uchida T, Salvagno C, Avolio F, Volinia S, Ronai Z, Blandino G, Schneider C, Del Sal G.

  Nature 2002 Oct; 419(6909):853.

  Application: IP-Wb, WB-Tr, Human, Mouse, 293 cells, MEFs

Disease

- Alzheimer disease
- Breast Neoplasms
- Carcinoma

- Cognition Disorders
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Lung Neoplasms
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Werner syndrome