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AM00104PU-N Monoclonal Antibody to PIN1 (incl. pos. control) - Purified

Alternate names: PIN-1, Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1, Peptidyl-prolyl cis-trans isomerase Pin1

Quantity: 0.1 mg

Background: PIN1 is a peptidyl-prolyl-cis-trans-isomerase (PPIase) that specifically interacts with serine phosphate-proline or threonine phosphate-proline motifs. Upon binding, PIN1 isomerizes the peptide bond form cis to trans. Known substrates of PIN1 are serveral mitotic phosphoproteins (e.g. cdc25) as well as phosphorylated p53, phosphorylated β-catenin and phosphorylated tau protein. It is assumed that the isomerization of phosphoproteins regulates their biological function.

Uniprot ID: Q13526

NCBI: NP_006212.1

GeneID: 5300

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: SM10P (for use in human samples), AM03095PU-N

Clone: 8C10

Immunogen: Recombinant Human PIN1

Format:
State: Lyophilized purified IgG fraction
Purification: Purified from serum-free cell culture supernatant by Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Buffer System: 1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose
Reconstitution: Restore with 1 ml H_2O (15 min, RT).

Applications:
ELISA: 0.1 µg/ml (protein ELISA).
Western Blot: 0.5 µg/ml for HRPO/ECL detection.
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer.
Included Positive Control: Cell lysate from untreated HepG2 cells.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody specifically recognizes Human PIN1 in cell extracts at 16 kDa.
Species: Human, Mouse, Dog.
Other species not tested.

Storage: Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C.
Avoid repeated freezing and thawing.
Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Shelf life: one year from despatch.

Pictures:

Detection of endogenous PIN1 Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with mab PIN1 8C10 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: A431; lane 2: A549; lane 3: SKOV3; lane 4: OVCAR5; lane 5: HaCaT; lane 6: PC3; lane 7: HeLa; lane 8: HepG2