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Product datasheet for AM00104PU-N

PIN1 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 8C10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8C10
Applications:	ELISA, WB
Recommended Dilution:	**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.
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human PIN1
Specificity:	This antibody specifically recognizes Human PIN1 in cell extracts at 16 kDa.
Formulation:	1 ml 2 x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H_2O (15 min, RT).
Purification:	Purified from serum-free cell culture supernatant by Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	peptidylprolyl cis/trans isomerase, NIMA-interacting 1
Database Link:	Entrez Gene 5300 Human Q13526

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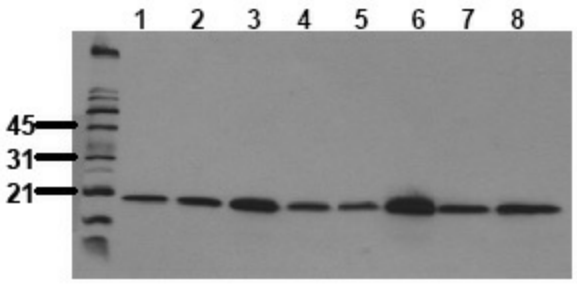
Background: PIN1 is a peptidyl-prolyl-cis-trans-isomerase (PPIase) that specifically interacts with serine phosphate-proline or threonine phosphate-proline motifs. Upon binding, PIN1 isomerizes the peptide bond form cis to trans. Known substrates of PIN1 are serveral mitotic phosphoproteins (e.g. cdc25)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

Synonyms: PIN-1

Product images:



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 ug/ 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