

## Mouse Monoclonal Antibody to

# PIN1 (human)

## clone 8C10

**Order No.:** 0112-100/PIN1-8C10  
**Size (µg)** 100  
**Lot No.:** 0112S



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Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB, ELISA	16 kDa	HepG2		recombinant human PIN1

### Background and Specificity:

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 from cis to trans. Known substrates of PIN1 are several 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.

**Mab PIN1-8C10** specifically recognizes human PIN1 in cell extracts at 16 kDa. The antibody is suitable for Western blot and ELISA applications

### Related Products

**Purification:** The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

**Formulation:** lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

**Reconstitution:** Reconstitute with 1 ml H<sub>2</sub>O (15 min, RT).

**Stability:** For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

#### Avoid repeated freeze / thaw cycles

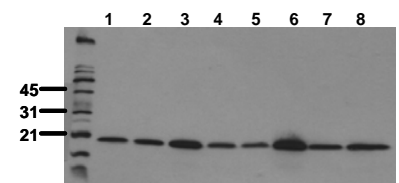
**Positive Control:** #0811: Cell lysate from untreated HepG2 cells

**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection  
**Recommended blocking buffer:** Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**Immunoprecipitation:** ND

**Immunocytochemistry:** ND

**ELISA:** 0.1 µg/ml (protein ELISA); capture ELISA: ND



#### 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

**All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.**