

DATASHEET
PIN1 (Phospho-S16) Rabbit Polyclonal Antibody
CAT. NO. APA07398
KEY FEATURES

Target	PIN1 (Phospho-S16)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Monkey, Pig, Zebrafish	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Peptidyl-prolyl cis/trans isomerase (PPIase) that binds to and isomerizes specific phosphorylated Ser/Thr-Pro (pSer/Thr-Pro) motifs that binds to and isomerizes specific phosphorylated Ser/Thr-Pro (pSer/Thr-Pro) motifs . By inducing conformational changes in a subset of phosphorylated proteins, acts as a molecular switch in multiple cellular processes . Displays a preference for acidic residues located N-terminally to the proline bond to be isomerized. Regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Down-regulates kinase activity of BTK . Can transactivate multiple oncogenes and induce centrosome amplification, chromosome instability and cell transformation.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:100
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to PIN1 (Phospho-S16)
Specificity	Recognizes endogenous levels of PIN1 protein only when phosphorylated at S16.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S16 of human PIN1 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 18 kD; Observed: 18 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1; Peptidyl-prolyl cis-trans isomerase Pin1; PPIase Pin1; Rotamase Pin1
Gene Symbol	PIN1
Entrez Gene	5300(Human); 23988(Mouse)
SwissProt	Q13526(Human); Q9QUR7(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

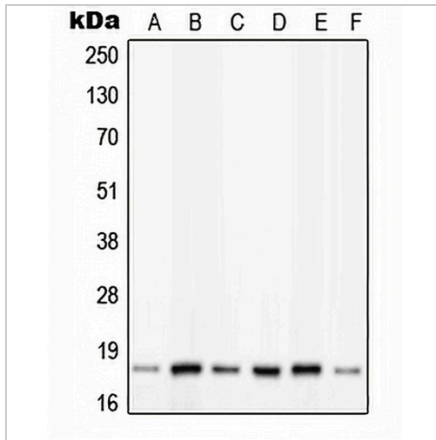
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

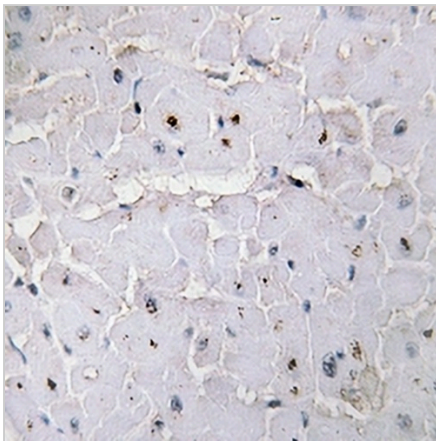
PIN1 (Phospho-S16) Rabbit Polyclonal Antibody

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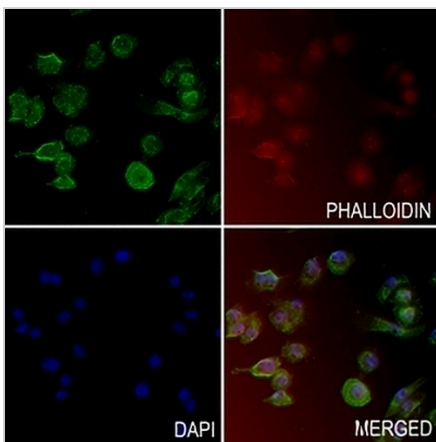
DATA



Western blot analysis of PIN1 (Phospho-S16) expression in HeLa insulin-treated (A), K562 (B), NIH3T3 (C), Raw264.7 insulin-treated (D), PC12 insulin-treated (E), C6 calyculin A-treated (F) whole cell lysates. (Predicted band size: 18 kD; Observed band size: 18 kD)



Immunohistochemical analysis of PIN1 (Phospho-S16) staining in human heart formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of PIN1 (Phospho-S16) staining in PANC1 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 - conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.