

## Anti-PIN1 Antibody

Catalog Number: A00467

### About PIN1

Pin1 (peptidylprolyl cis/trans isomerase NIMA-interacting 1 protein) is an essential peptidylprolyl isomerase that regulates mitosis, presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Pin1 displays a preference for an acidic residue N-terminal to the isomerized proline bond and also catalyzes pSer/Thr-Pro cis/trans isomerizations. Pin1 shows a nuclear localization.

### Overview

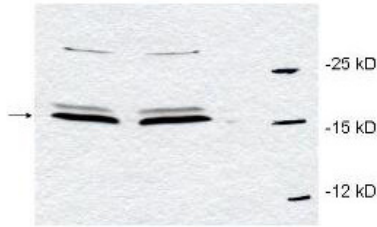
Product Name	Anti-PIN1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-PIN1 Antibody (Catalog # A00467). Tested in ELISA, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q13526

### Technical Details

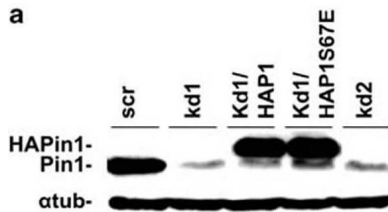
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal sequence of human Pin1.
Predicted Reactive Species	Macaque
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.1 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against human Pin1. The product was affinity purified from

	<p>monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Pin1 from human, dog, bovine and monkey based on a 100% homology with the immunizing sequence. Expect partial reactivity with Pin1 from mouse and rat sources based on 92% sequence homologies. Reactivity against homologues from other sources is not known.</p>
<b>Suggested Dilutions</b>	<p>ELISA: 1:2,500 - 1:10,000 IHC: 5µg/mL IP: 1:100 WB: 1:500 - 1:3,000</p> <p>This affinity purified antibody has been tested for use in ELISA, Immunohistochemistry, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 18 kDa in size corresponding to Pin1 by western blotting in the appropriate cell lysate or extract. Lysates from 3T3, Jurkat, 293 or HeLa cells, as well as HeLa nuclear extract, are recommended for use as positive controls.</p>

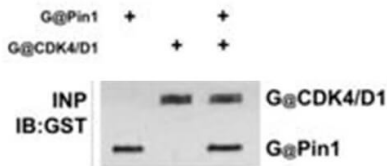
## Anti-PIN1 Antibody (A00467) Images



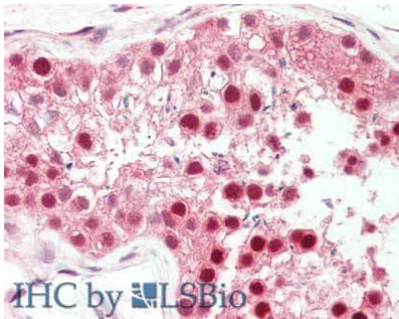
Western blot using Boster's affinity purified anti-Pin1 antibody to detect endogenous Pin1 in HeLa whole cell lysates. The sample was run in duplicate. A band representing Pin1 is indicated by the arrowhead. Cell lysates were electrophoresed using a straight 15% polyacrylamide gel, followed by transfer to nitrocellulose. The membrane was probed with the primary antibody at a 1:700 dilution. A 1:5,000 dilution of HRP Gt-a-Rabbit IgG (611-103-122) was used with a 15 sec exposure time. Personal Communication, L. D'agostino and A. Giordano, SHRO, Philadelphia, PA.



Western Blot of Rabbit anti-PIN1 antibody. Lane 1: T98G cells treated with scrambled (scr). Lane 2: T98G cells treated with PIN1 kd1 shRNA. Lane 3: T98G cells treated with PIN1-overexpressing plasmid HAP1. Lane 4: T98G cells treated with PIN1-overexpressing plasmid HAP1S67E. Lane 5: T98G cells treated with PIN1 kd2 shRNA. Load: 25  $\mu$ g per lane. Primary antibody: PIN 1 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted size: 18 kDa for PIN-1. Other band(s): normalized with a-tubulin (alpha-tub) antibody.



Immunoprecipitation of Rabbit anti-PIN1 antibody. Lane 1: T98G cells incubated with GST-Pin1. Lane 2: T98G cells incubated with GST-CDK4/cyclinD1. Lane 3: T98G cells incubated with GST-Pin1 and GST-CDK4/cyclinD1. Immunoprecipitated with pRb antibody. Load: 25  $\mu$ g per lane. Primary antibody: anti-GST 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.



Immunohistochemistry of rabbit anti-PIN1 antibody. Tissue: testis. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-PIN1 at 5  $\mu$ g/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: PIN-1 as precipitated red signal with hematoxylin purple nuclear counterstain.

Submit a product review to [Biocompare.com](https://www.biocompare.com)

Submit a review of this product to [Biocompare.com](https://www.biocompare.com) to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-PIN1 Antibody

For Research Use Only. Not for use in diagnostic procedures.