Datasheet for ABIN7162851

anti-PIN1 antibody (AA 1-163)

2 Images

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Overview

Quantity:	100 µg
Target:	PIN1
Binding Specificity:	AA 1-163
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIN1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant Human Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 protein (1-163AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PIN1
Alternative Name:	PIN1 (PIN1 Products)
Background:	Background: Peptidyl-prolyl cis/trans isomerase (PPIase) that binds to and isomerizes specific phosphorylated Ser/Thr-Pro (pSer/Thr-Pro) motifs. By inducing conformational changes in a

Target Details

	subset of phosphorylated proteins, acts as a molecular switch in multiple cellular processes (PubMed:21497122, PubMed:22033920, PubMed:23623683). 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 (PubMed:16644721). Can transactivate multiple oncogenes and induce centrosome amplification, chromosome instability and cell transformation. Required for the efficient dephosphorylation and recycling of RAF1 after mitogen activation (PubMed:15664191). Binds and targets PML and BCL6 for degradation in a phosphorylation-dependent manner (PubMed:17828269). Acts as a regulator of JNK cascade by binding to phosphorylated FBXW7, disrupting FBXW7 dimerization and promoting FBXW7 autoubiquitination and degradation: degradation of FBXW7 leads to subsequent stabilization of JUN (PubMed:22608923). May facilitate the ubiquitination and proteasomal degradation of RBBP8/CtIP through CUL3/KLHL15 E3 ubiquitin-protein ligase complex, hence favors DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR) (PubMed:23623683, PubMed:27561354). Aliases: DOD antibody, DODO, Drosophila, homolog of antibody, FLJ40239 antibody, FLJ77628 antibody, MGC10717 antibody, NIMA interacting 1 antibody, Peptidyl prolyl cis trans isomerase NIMA interacting 1 antibody, Peptidyl prolyl cis/trans isomerase NIMA interacting antibody, Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 antibody, Peptidyl-prolyl cis-trans isomerase pin1 antibody, Peptidylprolyl cis/trans isomerase NIMA interacting 1 antibody, Pin 1 antibody, Pin1 antibody, PIN1_HUMAN antibody, PPIase Pin1 antibody, Prolyl isomerase antibody, Protein (peptidylprolyl cis/trans isomerase) NIMA interacting 1 antibody, Protein NIMA interacting 1 antibody, Rotamase Pin1 antibody, UBL 5 antibody, UBL5 antibody
UniProt:	Q13526

Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200, IP:1:200-1:2000,
Restrictions:	For Research Use only

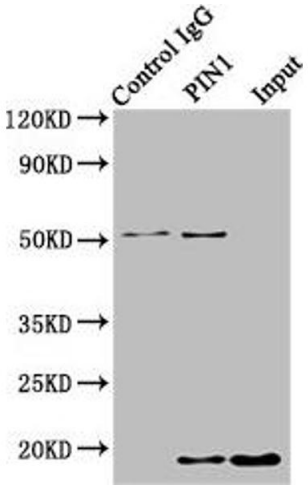
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Handling

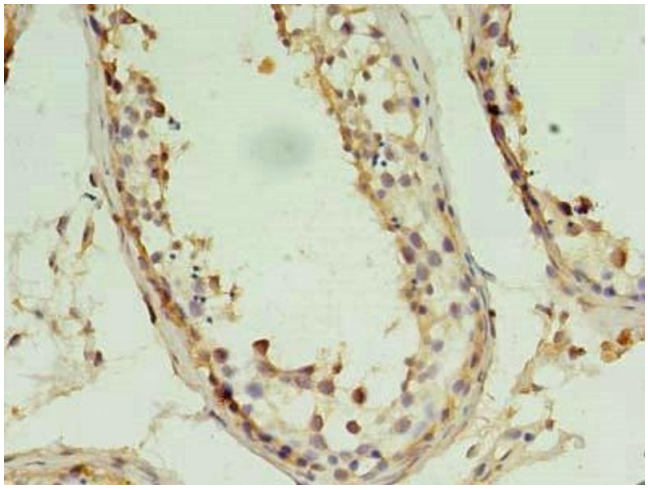
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Immunoprecipitating PIN1 in HepG2 whole cell lysate Lane 1: Rabbit control IgG instead of ABIN7162851 in HepG2 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000) Lane 2: ABIN7162851 (8 µg) + HepG2 whole cell lysate (500 µg) Lane 3: HepG2 whole cell lysate (10 µg)



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human testis tissue using ABIN7162851 at dilution of 1:100

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