Datasheet for ABIN233831

anti-PIN1 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	PIN1
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIN1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an sequence of human Pin1.
Isotype:	IgG
Cross-Reactivity:	Dog (Canine), Sheep (Ovine), Monkey
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	PIN1
Alternative Name:	PIN1 (PIN1 Products)
Background:	Pin1 (peptidylprolyl cis/trans isomerase NIMA-interacting 1 protein) is an essential

Target Details

	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. Synonyms: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 antibody, Prolyl isomerase antibody, Protein (peptidylprolyl cis/trans isomerase) NIMA interacting 1 antibody, Protein NIMA interacting 1 antibody, Rotamase Pin1 antibody, UBL 5 antibody
Gene ID:	5300, 5453898
UniProt:	Q13526

Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA 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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.2 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

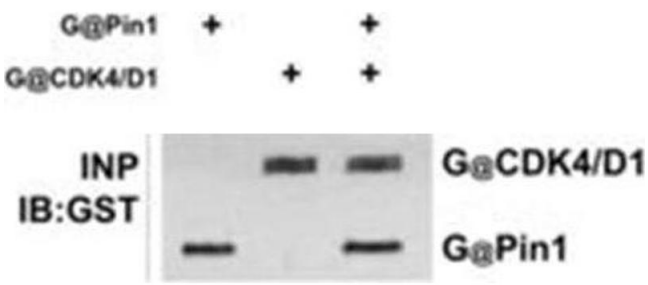
Product cited in:	Puzio-Kuter, Laddha, Castillo-Martin, Sun, Cordon-Cardo, Chan, Levine: "Involvement of tumor suppressors PTEN and p53 in the formation of multiple subtypes of liposarcoma." in: **Cell death and differentiation**, Vol. 22, Issue 11, pp. 1785-91, (2015) (PubMed).

Publications

Sarkar, Sharan, Wang, Pawar, Cantwell, Johnson, Morrison, Wang, Sterneck: "Identification of a Src tyrosine kinase/SIAH2 E3 ubiquitin ligase pathway that regulates C/EBPδ expression and contributes to transformation of breast tumor cells." in: **Molecular and cellular biology**, Vol. 32, Issue 2, pp. 320-32, (2012) (PubMed).

Balamurugan, Wang, Tsai, Sharan, Anver, Leighty, Sterneck: "The tumour suppressor C/EBPδ inhibits FBXW7 expression and promotes mammary tumour metastasis." in: **The EMBO journal**, Vol. 29, Issue 24, pp. 4106-17, (2011) (PubMed).

Images



Western Blotting

Image 1. 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 µg per lane. Primary antibody: anti-GST 1:400 for overnight at 4°C. Secondary antibody: secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.

Western Blotting

Image 2. Western blot using 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 was used with a 15 sec exposure time. Personal Communication, L. D'agostino and A. Giordano, SHRO, Philadelphia, PA.