



Pin1 Rabbit mAb

Catalog No	YP-rAb-16893
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	PIN1
Protein Name	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	Pin1;Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1;PIN1 ; Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 ; Peptidyl-prolyl cis-trans isomerase Pin1 ; PPlase Pin1 ; Rotamase Pin1
Observed Band	18kD
Calculated Molecular Weight	18kD
Cell Pathway	Nucleus . Nucleus speckle . Cytoplasm . Colocalizes with NEK6 in the nucleus (PubMed:16476580). Mainly localized in the nucleus but phosphorylation at Ser-71 by DAPK1 results in inhibition of its nuclear localization (PubMed:21497122). .
Tissue Specificity	Expressed in immune cells in the lung (at protein level) (PubMed:29686383). The phosphorylated form at Ser-7 1 is expressed in normal breast tissue cells but not in breast cancer cells.
Function	Catalytic activity:Peptidylproline (omega= 180) = peptidylproline (omega=0).,Domain:The WW domain is required for the interaction with STIL and MPHOSPH1.,Function:Essential PPlase that regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Displays a preference for an acidic residue N-terminal to the isomerized proline bond. Catalyzing pSer/Thr-Pro cis/trans isomerizations.,PTM:Phosphorylated up on DNA damage, probably by ATM or ATR.,similarity:Contains 1 PpiC domain.,similarity:Contains 1 WW domain.,subunit:Interacts with STIL (By similarity). Interacts with MPHOSPH1.,


Background

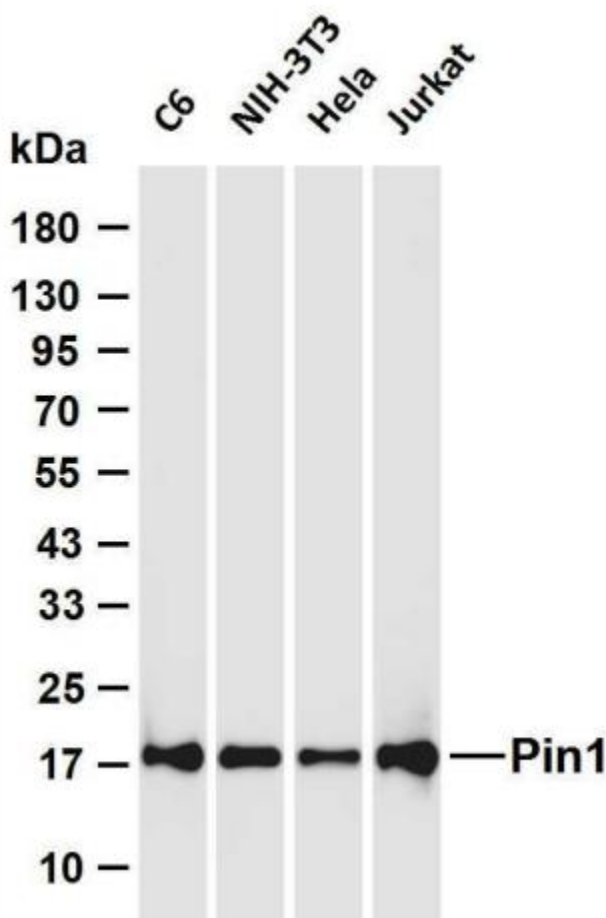
Peptidyl-prolyl cis/trans isomerases (PPLases) catalyze the cis/trans isomerization of peptidyl-prolyl peptide bonds. This gene encodes one of the PPLases, which specifically binds to phosphorylated ser/thr-pro motifs to catalytically regulate the post-phosphorylation conformation of its substrates. The conformational regulation catalyzed by this PPLase has a profound impact on key proteins involved in the regulation of cell growth, genotoxic and other stress responses, the immune response, induction and maintenance of pluripotency, germ cell development, neuronal differentiation, and survival. This enzyme also plays a key role in the pathogenesis of Alzheimer's disease and many cancers. Multiple alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jun 2011],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Pin1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: NIH-3T3 Lane 3: HeLa Lane 4: Jurkat
Predicted band size: 18kDa Observed band size: 18kDa

