

Product Name: KD-Validated PIN1 Mouse Monoclonal Antibody**Catalog #: KVA01864**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 18.2kDa

Antigen Information

Gene Name	PIN1
Alternative Names	PIN1; Peptidylprolyl Cis/Trans Isomerase, NIMA-Interacting 1; Dod; Protein (Peptidyl-Prolyl Cis/Trans Isomerase) NIMA-Interacting 1; Peptidyl-Prolyl Cis-Trans Isomerase NIMA-Interacting 1; Protein Interacting With Never In Mitosis A1; Parvulin PIN1; Rotamase Pin1; PPlase Pin1; EC 5.2.1.8; Peptidyl-Prolyl Cis-Trans Isomerase Pin1; UBL5
Gene ID	5300.0
SwissProt ID	Q13526
Immunogen	Purified protein of human PIN1

Background

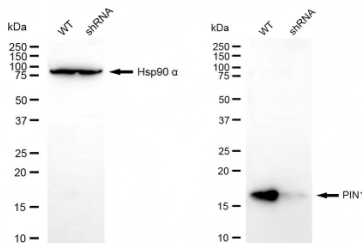
Peptidyl-prolyl cis/trans isomerases (PPlases) catalyze the cis/trans isomerization of peptidyl-prolyl peptide bonds. This gene

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]

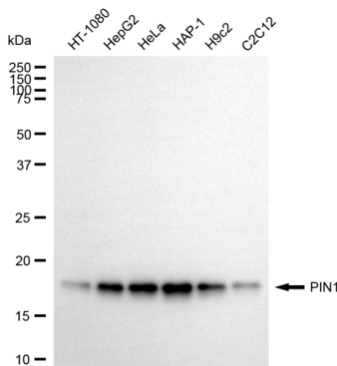
Research Area

Epigenetics and Nuclear Signaling

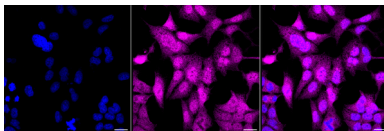
Image Data



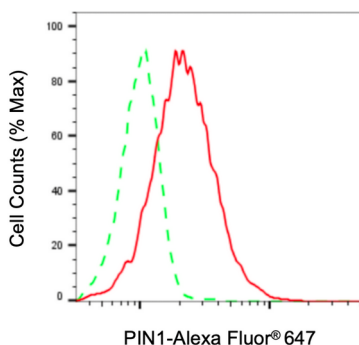
Western blotting analysis using PIN1 antibody (KVA01864). PIN1 expression in wild-type (WT) and PIN1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PIN1 antibody (KVA01864, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PIN1 antibody (KVA01864). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PIN1 antibody (KVA01864, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP1 cells with PIN1 antibody (KVA01864, 1:1,000). Nuclei were stained blue with DAPI; PIN1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of PIN1 expression in HAP-1 cells using PIN1 antibody (KVA01864, 1:2,000). Green, isotype control; red, PIN1.

