Mouse Pin1 Monoclonal Antibody | anti-PIN1 antibody

Anti-Pin1 Antibody Picoband (monoclonal, 5E5)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126869	**Mouse**	**Human, Monkey, Rat**	**Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Pin1; Monoclonal Antibody; Anti-Pin1 Antibody Picoband (monoclonal; 5E5); anti-PIN1 antibody

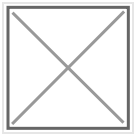
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey, Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	5E5
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-PIN1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Pin1 recombinant protein (Position: M1-E163). Human Pin1 shares 95% amino acid (aa) sequence identity with mouse Pin1.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES

FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of U87 cells using anti-Pin1 antibody (AAA126869).Overlay histogram showing U87 cells stained with AAA126869 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Pin1 Antibody (AAA126869, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IF (Immunofluorescence)
Figure 2. IF analysis of Pin1 using anti-Pin1 antibody (AAA126869).Pin1 was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-Pin1 Antibody (AAA126869) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Pin1 using anti-Pin1 antibody (AAA126869).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human HEK293 whole cell lysates,Lane 3: human SW620 whole cell lysates,Lane 4: monkey COS-7 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat C6 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Pin1 antigen affinity purified monoclonal antibody (#AAA126869) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Pin1 at approximately 18 kDa. The expected band size for Pin1 is at 18 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PIN1 antibody	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1, also called DOD, is an enzyme that in humans is encoded by the PIN1 gene. It is mapped to 19p13.2. The enzyme binds to a subset of proteins and thus plays a role as a post phospho PIN1rol in regulating protein function. Studies have shown that the deregulation of PIN1 may play a pivotal role in various diseases. Notably, the up-regulation of PIN1 may be implicated in certain cancers, and the down-regulation of Pin1 may be implicated in Alzheimer's disease. Inhibitors of PIN1 may have therapeutic implications for cancer and immune disorders. PIN1 activity regulates the outcome of proline-directed kinase (e.g. MAPK, CDK or GSK3) signalling and consequently regulates cell proliferation (in part through control of cyclin D1 levels and stability) and cell survival. PIN1 also has an essential role in maintaining cell proliferation and regulating cyclin D1 function.
Product Categories/Family for anti-PIN1 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453898
NCBI GeneID	5300
NCBI Accession #	NP_006212.1
NCBI GenBank Nucleotide #	NM_006221.3
UniProt Accession #	Q13526; Q53X75; A8K4V9
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
NCBI Official Synonym Full Names	peptidylprolyl cis/trans isomerase, NIMA-interacting 1
NCBI Official Symbol	PIN1
NCBI Official Synonym Symbols	DOD; UBL5
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase NIMA-interacting 1; PPIase Pin1; rotamase Pin1; protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
UniProt Gene Name	**PIN1**
UniProt Synonym Gene Names	PPIase Pin1
UniProt Entry Name	PIN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/pin1-antibody-clone-5e5-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126869