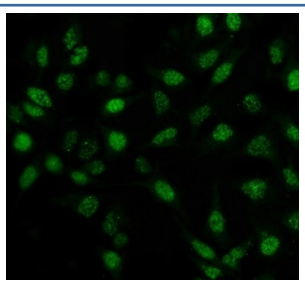
PIN1 Antibody / Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 [clone 5E5.] (RQ7631)

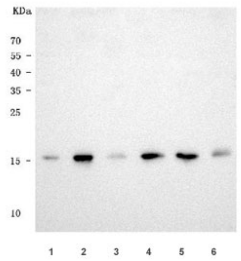
Catalog No.	Formulation	Size
RQ7631	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

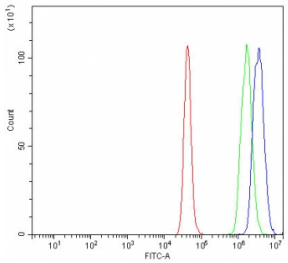
Availability	1-3 business days
Species Reactivity	Human, Rat, Monkey
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	5E5.
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13526
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This PIN1 antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with PIN1 antibody (green).
HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human HEK293, 3) human SW620, 4) monkey COS-7, 5) rat brain and 6) rat C6 cell lysate with PIN1 antibody. Predicted molecular weight ~18 kDa.



Flow cytometry testing of human U-87 MG cells with PIN1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PIN1 antibody.

Description

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 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.

Application Notes

Optimal dilution of the PIN1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids M1-E163) was used as the immunogen for the PIN1 antibody.

Storage

After reconstitution, the PIN1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.