

PIN1 Monoclonal antibody

Catalog Number: 68127-1-Ig

Basic Information

Catalog Number:

68127-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG0767

GenBank Accession Number:

BC002899

GeneID (NCBI):

5300

UNIPROT ID:

Q13526

Full Name:

peptidylprolyl cis/trans isomerase,
NIMA-interacting 1

Calculated MW:

18 kDa

Observed MW:

18 kDa

Purification Method:

Protein G purification

CloneNo.:

1F4G3

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total
protein lysate

IF/ICC 1:200-1:800

Applications

Tested Applications:

IF/ICC, IP, WB, ELISA

Species Specificity:

Human, mouse, rat, rabbit, pig

Positive Controls:

WB: HeLa cells, Jurkat cells, K-562 cells, pig brain
tissue, rabbit brain tissue, rat brain tissue, mouse brain
tissue

IP: HepG2 cells,

IF/ICC: NIH/3T3 cells,

Background Information

PIN1 (Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1) is essential for mitosis progression in yeast cells and is hypothesized to perform the same role in mammalian cells. It might regulate cellular processes distinct from the cell cycle itself, such as terminal differentiation through a modulation of differentiation-specific gene expression (PMID:20801874). It colocalizes with NEK6 in the nucleus. Pin1 inhibition simultaneously blocks multiple cancer pathways, disrupts the desmoplastic and immunosuppressive TME, and upregulates PD-L1 and ENT1, rendering pancreatic ductal adenocarcinoma (PDAC) eradicable by immunochemotherapy (PMID: 34388391).

Storage

Storage:

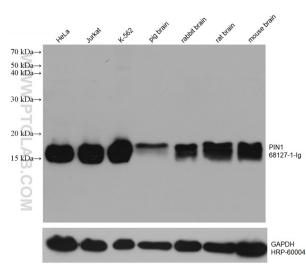
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

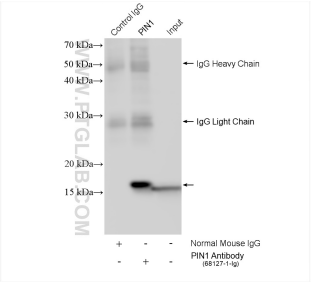
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68127-1-Ig (PIN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



IP result of anti-PIN1 (IP:68127-1-Ig, 4ug; Detection:68127-1-Ig 1:2000) with HepG2 cells lysate 1920 ug.



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using PIN1 antibody (68127-1-Ig, Clone: 1F4G3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).