**Pin1 (G-8): sc-46660**

**BACKGROUND**

NIMA was originally shown in *Aspergillus nidulans* to be necessary for entry into mitosis. NIMA-related mammalian proteins have since been identified as Nek1, Nek2 and Nek3. High expression of Nek1 is seen in male and female germ cell lines of mouse. Nek2 is the closest known mammalian relative to NIMA. Like NIMA, Nek2 expression peaks at the G2 to M phase transition. Pin1 was originally identified as a NIMA-interacting protein. Pin1 is a peptidyl-prolyl cis/trans isomerase (PPIase), which specifically binds to phosphoserine-proline or phosphothreonine-proline bonds in mitotic phosphoproteins. While previously identified PPIases have been shown to be involved in protein folding, assembly and transport, Pin1 is the first PPIase to be identified as a required protein for cell viability.

**CHROMOSOMAL LOCATION**

Genetic locus: PIN1 (human) mapping to 19p13.2; Pin1 (mouse) mapping to 9 A3.

**SOURCE**

Pin1 (G-8) is a mouse monoclonal antibody raised against amino acids 41-163 mapping at the C-terminus of Pin1 of human origin.

**PRODUCT**

Each vial contains 200 μg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Pin1 (G-8) is available conjugated to agarose (sc-46660 AC), 500 µg/0.25 ml sodium azide and 0.1% gelatin.

Pin1 (G-8) is recommended for detection of Pin1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:5000), immunoprecipitation (1-2 μg per 100-500 μg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Pin1 siRNA (h): sc-36230, Pin1 siRNA (m): sc-36231, Pin1 shRNA Plasmid (h): sc-36230, Pin1 shRNA Plasmid (m): sc-36231, Pin1 shRNA (h) Lentiviral Particles: sc-36230-1 V and Pin1 shRNA (m) Lentiviral Particles: sc-36231-1 V.

Molecular Weight of Pin1: 20 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, A-431 (B), AS49 (C), OVCAR-3 (D) and HEla (E) whole cell lysates.

**APPLICATIONS**

Pin1 (G-8) is a mouse monoclonal antibody raised against amino acids 41-163 mapping at the C-terminus of Pin1 of human origin.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

Pin1 (G-8): sc-46660. Western blot analysis of Pin1 expression in HEK293 (A), A-431 (B), AS49 (C), OVCAR-3 (D) and HEla (E) whole cell lysates.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.