



Pin4 (F-13): sc-100810

BACKGROUND

The peptidyl-prolyl *cis/trans*-isomerase (PPIase) superfamily consists of three subfamilies, all of which contain proteins that are involved in the transport, folding and assembly of proteins. Pin4 (Peptidyl-prolyl *cis/trans*-isomerase NIMA-interacting 4), also known as EPVH, PAR14 (Parvulin 14) or PAR17, is a 131 amino acid member of the parvulin family, one of the three PPIase subfamilies. Expressed throughout the body with lowest expression levels in neuronal tissue, Pin4 contains one PPIase domain and is thought to function as a helper protein that catalytically mediates protein folding events within the cell. Additionally, Pin4 is able to bind DNA and, via this binding, may be involved in regulation of both chromatin remodeling and the cell cycle.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PIN4 (human) mapping to Xq13.1; Pin4 (mouse) mapping to X D.

STORAGE

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

SOURCE

Pin4 (F-13) is a mouse monoclonal antibody raised against recombinant Pin4 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Pin4 (F-13) is recommended for detection of Pin4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Pin4 siRNA (h): sc-90997, Pin4 siRNA (m): sc-152266, Pin4 shRNA Plasmid (h): sc-90997-SH, Pin4 shRNA Plasmid (m): sc-152266-SH, Pin4 shRNA (h) Lentiviral Particles: sc-90997-V and Pin4 shRNA (m) Lentiviral Particles: sc-152266-V.

Molecular Weight of Pin4: 14 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.