**BACKGROUND**

PPIH (peptidyl-prolyl isomerase H (cyclophilin H)), also known as PPlase H, Rotamase H, CypH, CYP20 or USA-CYP (U-snRNP-associated cyclophilin SnuCyp-20), is a 177 amino acid protein that belongs to the cyclophilin-type PPlase family. PPIH may accelerate the folding of proteins and catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. PPIH is thought to participate in pre-mRNA splicing with processing factors PRPF3, PRPF4, and PRPF18 and may be involved in the assembly of the U4/U5/U6 tri-snRNP complex. Considered a protein chaperone, PPIH possesses PPlase activity and mediates the interactions between different proteins inside the spliceosome. PPIH contains one PPlase cyclophilin-type domain and is inhibited by cyclosporin A.

**REFERENCES**

3. Horowitz, D.S., et al. 1997. A new cyclophilin and the human homologues E ach vial contains 200 µg IgG3 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChiP applications, sc-377217 X, 200 µg/0.1 ml.

**PRODUCT**

Each vial contains 200 µg IgG3 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.2% stabilizer protein.

**CHROMOSOMAL LOCATION**

Genetic locus: PPIH (human) mapping to 1p34.2; Ppih (mouse) mapping to 4 D2.1.

**SOURCE**

PPIH (C-1) is a mouse monoclonal antibody raised against a peptide mapping within an internal region of PPIH of human origin.

**APPLICATIONS**

PPIH (C-1) is recommended for detection of PPIH of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 PPIH siRNA (h): sc-76207, PPIH siRNA (m): sc-76208, PPIH shRNA Plasmid (h): sc-76207-SH, PPIH shRNA Plasmid (m): sc-76208-SH, PPIH shRNA (h) Lentiviral Particles: sc-76207-V and PPIH shRNA (m) Lentiviral Particles: sc-76208-V.

PPIH (C-1) X TransCruz antibody is recommended for Gel Supershift and ChiP applications.

Molecular Weight of PPIH: 20 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG3 BP-HRP: sc-516102 or m-IgG3 BP-HPR (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), 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-2035 (0.5 ml agarose/2.0 ml).

**DATA**

**STORAGE**

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

**RESEARCH USE**

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