PPIH (C-5): sc-390798

**BACKGROUND**

PPIH (peptidylprolyl isomerase H, cyclophilin H), also known as PPLase H, Rotamase H, Cyph, CYP20 or US-A-CYP (U-snRNP-associated cyclophilin SnuCyph-20), is a 177 amino acid protein that belongs to the cyclophilin-type PPIase 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 PPIase cyclophilin-type domain and is inhibited by cyclosporin A.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

PPIH (C-5) is a mouse monoclonal antibody raised against amino acids 140-177 mapping at the C-terminus of PPIH of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 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-390798 X, 200 µg/0.1 ml.

**STORAGE**

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

**APPLICATIONS**

PPIH (C-5) 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), 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).

PPIH (C-5) is also recommended for detection of PPIH in additional species, including equine, canine, bovine and porcine.

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-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PPIH: 20 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![Western blot analysis of PPIH expression in HL-60 (A), Jurkat (B), K-562 (C), F9 (D) and TF-1 (E) whole cell lysates](image)

PPIH (C-5): sc-390798. Western blot analysis of PPIH expression in HL-60 (A), Jurkat (B), K-562 (C), F9 (D) and TF-1 (E) whole cell lysates.

![Immunoperoxidase staining of formalin fixed, paraffin-embedded human colon tissue showing nuclear and cytoplasmic staining of glandular cells and endothelial cells](image)

PPIH (C-5): sc-390798. Immunoperoxidase staining of formalin fixed, paraffin-embedded human colon tissue showing nuclear and cytoplasmic staining of glandular cells and endothelial cells.

**RESEARCH USE**

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