

PPIL2 (A-9): sc-514512

BACKGROUND

Cyclophilins are conserved, ubiquitous and abundant cytosolic peptidylprolyl *cis-trans* isomerases that accelerate the isomerization of XaaPro peptide bonds and the refolding of proteins. Cyp60 (cyclophilin-60), also known as PPIL2 (peptidylprolyl isomerase (cyclophilin)-like 2), CYC4 or PPlase, is a 520 amino acid nuclear protein that belongs to the PPIL2 subfamily of the cyclophilin-type PPlase family. As a peptidylprolyl isomerase, Cyp60 accelerates protein folding, specifically the *cis-trans* isomerization of oligopeptide proline imidic peptide bonds. Existing as two alternatively spliced isoforms, Cyp60 is highly expressed in testis, pancreas and placenta, along with many melanomas and lymphomas, and is expressed at lower levels in spleen, kidney, prostate, small intestine, colon, heart, placenta, liver and lung. The gene encoding Cyp60 maps to human chromosome 22q11.21.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPIL2 (human) mapping to 22q11.21; Ppil2 (mouse) mapping to 16 A3.

SOURCE

PPIL2 (A-9) is a mouse monoclonal antibody raised against amino acids 1-225 of PPIL2 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.

APPLICATIONS

PPIL2 (A-9) is recommended for detection of PPIL2 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 PPIL2 siRNA (h): sc-77077, PPIL2 siRNA (m): sc-142740, PPIL2 shRNA Plasmid (h): sc-77077-SH, PPIL2 shRNA Plasmid (m): sc-142740-SH, PPIL2 shRNA (h) Lentiviral Particles: sc-77077-V and PPIL2 shRNA (m) Lentiviral Particles: sc-142740-V.

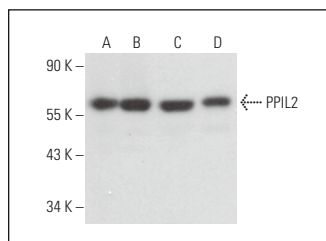
Molecular Weight of PPIL2: 59 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, MIA PaCa-2 cell lysate: sc-2285 or Jurkat whole cell lysate: sc-2204.

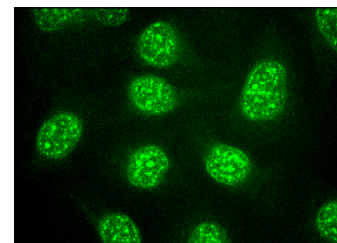
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



PPIL2 (A-9): sc-514512. Western blot analysis of PPIL2 expression in MIA PaCa-2 (A), HeLa (B), Jurkat (C) and Hep G2 (D) whole cell lysates.



PPIL2 (A-9): sc-514512. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

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.

PROTOCOLS

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