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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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# PPIL2 (h4): 293T Lysate: sc-175188

## 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. PPIL2 (cyclophilin-60), also known as PPIL2 (peptidylprolyl isomerase (cyclophilin)-like 2), CYC4 or PPIase, is a 520 amino acid nuclear protein that belongs to the PPIL2 subfamily of the cyclophilin-type PPIase family. As a peptidylprolyl isomerase, PPIL2 accelerates protein folding, specifically the *cis-trans* isomerization of oligopeptide proline imidic peptide bonds. Existing as two alternatively spliced isoforms, PPIL2 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 PPIL2 maps to human chromosome 22q11.21.

## REFERENCES

1. Wang, B.B., et al. 1996. Identification of a nuclear-specific cyclophilin which interacts with the proteinase inhibitor eglin c. *Biochem. J.* 314: 313-319.
2. Hatakeyama, S., et al. 2001. U box proteins as a new family of ubiquitin-protein ligases. *J. Biol. Chem.* 276: 33111-33120.
3. Online Mendelian Inheritance in Man, OMIM™. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 607588. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Pushkarsky, T., et al. 2005. Cell surface expression of CD147/EMMPRIN is regulated by cyclophilin 60. *J. Biol. Chem.* 280: 27866-27871.
5. Yao, Q., et al. 2005. Roles of cyclophilins in cancers and other organ systems. *World J. Surg.* 29: 276-280.
6. Carson, R., et al. 2009. Variation in RTN3 and PPIL2 genes does not influence platelet membrane  $\beta$ -secretase activity or susceptibility to Alzheimer's disease in the northern Irish population. *Neuromolecular Med.* 11: 337-344.

## CHROMOSOMAL LOCATION

Genetic locus: PPIL2 (human) mapping to 22q11.21.

## PRODUCT

PPIL2 (h4): 293T Lysate represents a lysate of human PPIL2 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

PPIL2 (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive PPIL2 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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](http://www.scbt.com) for detailed protocols and support products.