



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# pirin (m): 293T Lysate: sc-122594

## BACKGROUND

Pirin (also designated iron-binding nuclear protein) is a highly conserved eukaryotic protein involved in transcriptional activation and apoptosis. Pirin mRNA is poorly expressed in all human tissues, and multiple pirin transcripts are expressed in heart and skeletal muscle. Research indicates that the expression of pirin may be localized to subnuclear structures. The interaction of pirin with NF1/CTF1 (nuclear factor I/CCAAT box transcription factor) classifies pirin as a putative NF1/CTF1 cofactor, which might lead to new insights in NF1/CTF1 activity. Pirin may be a significant factor in transcriptional regulation and is presumably involved in the regulation of DNA transcription and replication.

## REFERENCES

1. Wendler, W.M., Kremmer, E., Förster, R. and Winnacker, E.L. 1997. Identification of pirin, a novel highly conserved nuclear protein. *The J. Biol. Chem.* 272: 8482-8489.
2. Orzaez, D., de Jong, A.J. and Woltering, E.J. 2001. A tomato homologue of the human protein pirin is induced during programmed cell death. *Plant Mol. Biol.* 46: 459-468.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603329. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Zeng, Q., Li, X., Bartlam, M., Wang, G., Pang, H. and Rao, Z. 2003. Purification, crystallization and preliminary X-ray analysis of human pirin. *Acta Crystallogr. D Biol. Crystallogr.* 59: 1496-1498.
5. Hihara, Y., Muramatsu, M., Nakamura, K. and Sonoike, K. 2004. A cyanobacterial gene encoding an ortholog of Pirin is induced under stress conditions. *FEBS Lett.* 574: 101-105.
6. Pang, H., Bartlam, M., Zeng, Q., Miyatake, H., Hisano, T., Miki, K., Wong, L.L., Gao, G.F. and Rao, Z. 2004. Crystal structure of human pirin: an iron-binding v cofactor. *J. Biol. Chem.* 279: 1491-1498.
7. Yoshikawa, R., Yanagi, H., Hashimoto-Tamaoki, T., Morinaga, T., Nakano, Y., Noda, M., Fujiwara, Y., Okamura, H. and Yamamura, T. 2004. Gene expression in response to anti-tumour intervention by polysaccharide-K (PSK) in colorectal carcinoma cells. *Oncol. Rep.* 12: 1287-1293.
8. Adams, M. and Jia, Z. 2005. Structural and biochemical analysis reveal pirins to possess quercetinase activity. *J. Biol. Chem.* 280: 28675-28682.
9. Gelbman, B.D., Heguy, A., O'Connor, T.P., Zabner, J. and Crystal, R.G. 2007. Upregulation of pirin expression by chronic cigarette smoking is associated with bronchial epithelial cell apoptosis. *Respir. Res.* 8: 10.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## CHROMOSOMAL LOCATION

Genetic locus: Pir (mouse) mapping to X F5.

## PRODUCT

pirin (m): 293T Lysate represents a lysate of mouse pirin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

pirin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive pirin antibodies. Recommended use: 10-20 µl per lane.

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

## RESEARCH USE

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