



**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

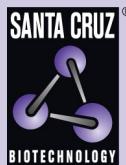
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

[linkedin.com/company/szaboscandic](http://linkedin.com/company/szaboscandic)



# p22-phox (m): 293T Lysate: sc-122308



The Power to Question

## BACKGROUND

Mox1 and the glycoprotein gp91-phox are largely related proteins that are essential components of the NADPH oxidase. The superoxide-generating NADPH oxidase is present in phagocytes, neuroepithelial bodies, vascular smooth muscle cells and endothelial cells. It includes a membrane-bound flavocytochrome containing two subunits, gp91-phox and p22-phox, and the cytosolic proteins p47-phox and p67-phox. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane, where they associate with the flavocytochrome cytochrome b558 to form the active enzyme complex. The p22- and gp91-phox subunits also function as conditions.

## REFERENCES

- Henderson, L.M., et al. 1995. The arachidonate-activatable, NADPH oxidase-associated H<sup>+</sup> channel. Evidence that gp91-phox functions as an essential part of the channel. *J. Biol. Chem.* 270: 5909-5916.
- Ushio-Fukai, M., et al. 1996. p22phox is a critical component of the superoxide-generating NADH/NADPH oxidase system and regulates Angiotensin II-induced hypertrophy in vascular smooth muscle cells. *J. Biol. Chem.* 271: 23317-23321.
- Suh, Y.A., et al. 1999. Cell transformation by the superoxide-generating oxidase Mox1. *Nature* 401: 79-82.
- Nisimoto, Y., et al. 1999. The p67-phox-activation domain regulates electron flow from NADPH to flavin in flavocytochrome b558. *J. Biol. Chem.* 274: 22999-23005.
- Archer, S.L., et al. 1999. O<sub>2</sub> sensing is preserved in mice lacking the gp91- phox subunit of NADPH oxidase. *Proc. Natl. Acad. Sci. USA* 96: 7944-7949.
- Yang, S., et al. 1999. Superoxide generation in transformed B lymphocytes from patients with severe, malignant osteopetrosis. *Mol. Cell. Biochem.* 199: 15-24.
- Meyer, J.W., et al. 1999. Identification of a functional leukocyte-type NADPH oxidase in human endothelial cells: a potential atherogenic source of reactive oxygen species. *Endothelium* 7: 11-22.
- Moreno, M.U., et al. 2003. Preliminary characterisation of the promoter of the human p22-phox gene: identification of a new polymorphism associated with hypertension. *FEBS Lett.* 542: 27-31.
- Groemping, Y. et al. 2003. Molecular basis of phosphorylation-induced activation of the NADPH oxidase. *Cell* 113: 343-355.

## CHROMOSOMAL LOCATION

Genetic locus: Cyba (mouse) mapping to 8 E1.

## PRODUCT

p22-phox (m): 293T Lysate represents a lysate of mouse p22-phox transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

p22-phox (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive p22-phox 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.

## 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) or our catalog for detailed protocols and support products.