

G Rac

1)

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1

p67phox

b<sub>558</sub>

NADPH

p47phox Rac

AA

NADPH

SDS

NADPH

NADPH

b<sub>558</sub> gp91phox p22phox 3

p47phox p67phox G

Rac Fig. 1

b<sub>558</sub>

p67phox gp91phox

gp91phox

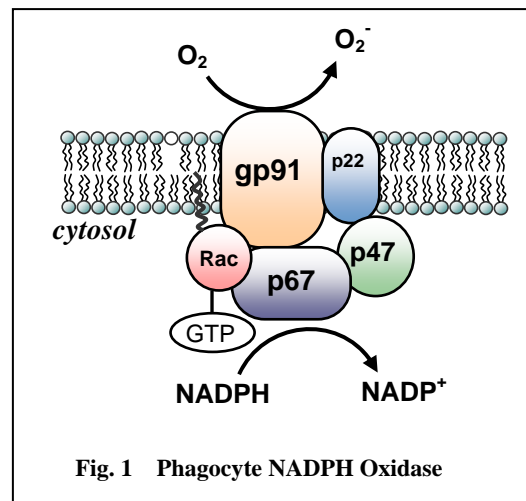
p67phox

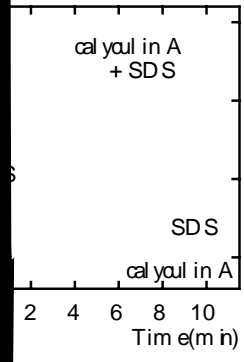
gp91phox

p47phox Rac

p47phox Rac

p47phox





- +

C



A

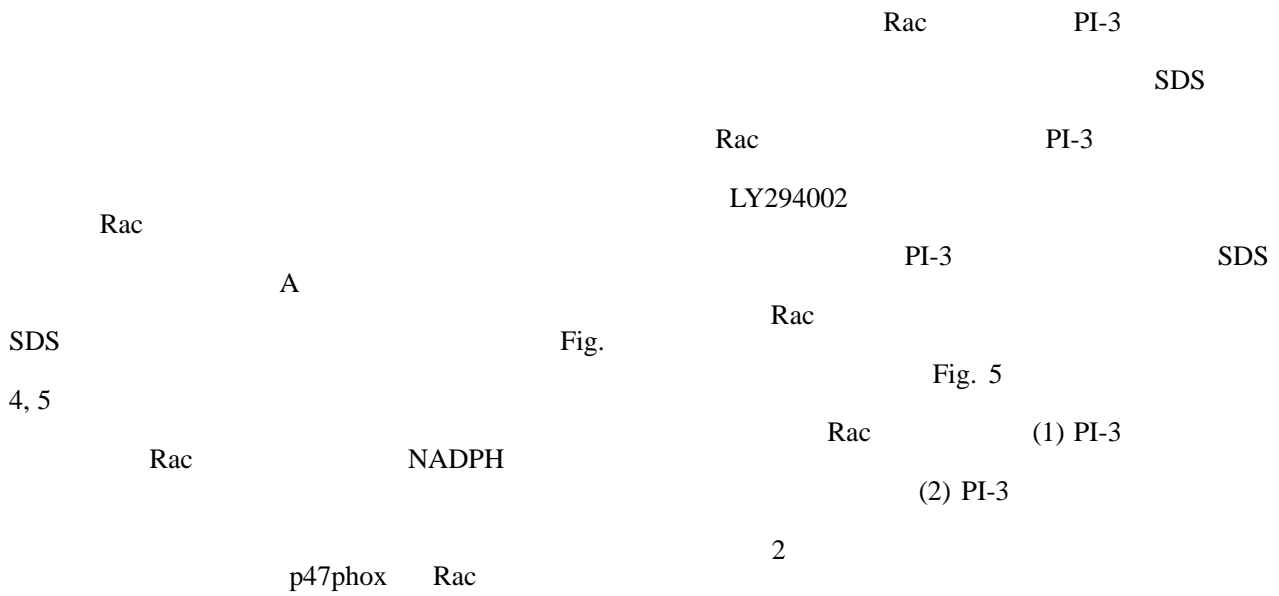
O<sub>2</sub><sup>-</sup> production  
(nmol / 10 min / 10<sup>6</sup> cells)



B

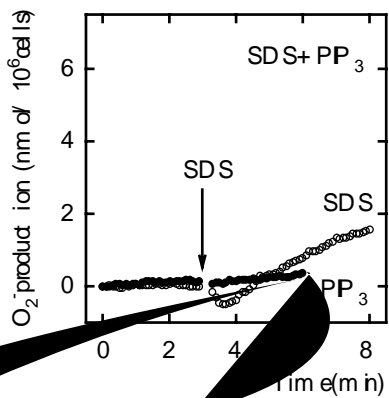
NADPH oxidase activity  
(nmol / min / mg protein)

- AA  
vehicle calyculin A



O<sub>2</sub> product ion (% of cont ro

LY 294002



3

A  
PI-3

3

Fig. 8

Rac NADPH

**Fig. 7 Effect of SDS on the in vitro translocation of Rac and p47<sup>phox</sup> to the plasma membrane.**

A, B, The membrane and the cytosol fractions from neutrophils were mixed and incubated at 25°C for 3 min with various concentrations of SDS. The membrane fraction was collected and analyzed by anti-Rac (A) or anti-p47<sup>phox</sup> (B).

Rac

Fig. 7

Rac

SDS

Rac

NADPH



RhoGDI

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2) Shiose, A., and Sumimoto, H. (2000)

*J Biol Chem* **275**, 13793-13801

3) Chuang, T.H., Bohl, B.P., and Bokoch, G.M. (1993)

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