Accepted Manuscript

Thioredoxin and redox signaling: Roles of the thioredoxin system in control of cell fate

Atsushi Matsuzawa

PII: S0003-9861(16)30354-X

DOI: 10.1016/j.abb.2016.09.011

Reference: YABBI 7373

To appear in: Archives of Biochemistry and Biophysics

Received Date: 25 August 2016

Revised Date: 17 September 2016

Accepted Date: 21 September 2016

Please cite this article as: A. Matsuzawa, Thioredoxin and redox signaling: Roles of the thioredoxin system in control of cell fate, *Archives of Biochemistry and Biophysics* (2016), doi: 10.1016/j.abb.2016.09.011.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

1	Review
2	
3	
4	Thioredoxin and redox signaling: roles of the thioredoxin system in control of cell fate
5	
6	
7	Atsushi Matsuzawa *
8	
9	
10	Laboratory of Health Chemistry, Graduate School of Pharmaceutical Sciences, Tohoku
11	University, 6-3 Aoba, Aramaki, Aoba-ku, Sendai, Miyagi 980-8578, Japan
12	
13	
14	* Corresponding author at: Laboratory of Health Chemistry, Graduate School of
15	Pharmaceutical Sciences, Tohoku University, 6-3 Aoba, Aramaki, Aoba-ku, Sendai,
16	Miyagi 980-8578, Japan. Telephone: +81 22 795 6827; FAX: +81 22 795 6826.
17	E-mail address: matsushi@m.tohoku.ac.jp (A. Matsuzawa).
18	
19	
20	¹ Abbreviations used: ROS, reactive oxygen species; Trx, thioredoxin; TrxR,
21	thioredoxin reductase, TXNIP, thioredoxin-interacting protein; LPS, lipopolysaccharide;
22	Prx, peroxiredoxin; Grx, glutaredoxin; ASK1, apoptosis signal-regulating kinase 1; JNK
23	c-Jun N-terminal kinase; TNF-α, tumor necrosis factor-α; AD, Alzheimer's disease; Aβ,
24	amyloid-β; ER, endoplasmic reticulum; ALS, amyotrophic lateral sclerosis; SOD1,
25	Cu/Zn-superoxide dismutase; IRS-1, insulin receptor substrate-1; TRP, transient
26	receptor potential; AMPK, 5'-AMP-activated protein kinase
27	
28	
29	Keywords: Thioredoxin, Redox, Oxidative stress, Signal transduction, ASK1, Cell fate
30	
31	

Download English Version:

https://daneshyari.com/en/article/5504444

Download Persian Version:

https://daneshyari.com/article/5504444

<u>Daneshyari.com</u>