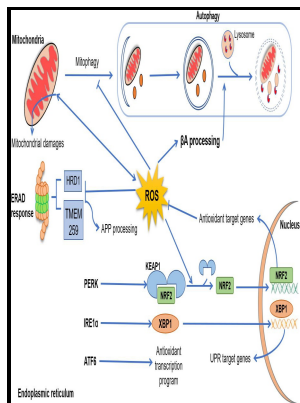


Protein sensors and reactive oxygen species

Academic Press - Protein Sensors and Reactive Oxygen Species, Part B: Thiol Enzymes and Proteins, Volume 348



Description: -

- Thioredoxin
Thiols
Active oxygen
Proteins
Protein sensors and reactive oxygen species
- Methods in enzymology -- v. 347, 348. Protein sensors and reactive oxygen species
Notes: Includes bibliographical references and indexes.
This edition was published in 2002



Filesize: 46.51 MB

Tags: #Interplay #between #the #unfolded #protein #response #and #reactive #oxygen #species: #a #dynamic #duo

At the Crossroads of Survival and Death: The Reactive Oxygen Species

Incorporation of cpFP into a linker between two Rex subunits results in Rex dimerization upon NADH binding and change in fluorescence. Peroxidoxins serve as important regulators of H_2O_2 and mitogenic signaling. Correlation between SA and induction of the UPR should be expected due to a heavy secretory protein load during biotic stress that requires an adaptive mechanism such as the UPR.

Protein sensors and reactive oxygen species (Book, 2002) [styleguide.expo.io]

This probe has the potential for diagnosis of lysosomal esterase deficiency related diseases. Hydrogen peroxide H_2O_2 is a membrane permeable ROS, which induces secondary ROS production in cells upon extended treatment.

Oxidative Stress Detection

ROS suppressed the activation of STING, as well as the activation of TBK1 and IRF3, thus leading to reduced $IFN\beta$ transcription. The underlying mechanism for ROS promotion of virus replication and reactivation remains to be investigated.

Protein Sensors Of Reactive Oxygen Species Part A Selenoproteins And Thioredoxin Volume 347 Methods In Enzymology PDF Book

Reduced glutathione also known as GSH is a major thiol bound to proteins. Here, we found that ROS impaired interferon response during murine herpesvirus infection and that the inhibition occurred downstream of cytoplasmic DNA sensing.

Reactive oxygen species oxidize STING and suppress interferon production

In addition, tissue and cellular oxygen distribution may also play a role in ROS detection, since it is not homogeneous ;.

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