

서포 사설 연구의 Rising Star! Ferroptosis

SnapShot: Ferroptosis

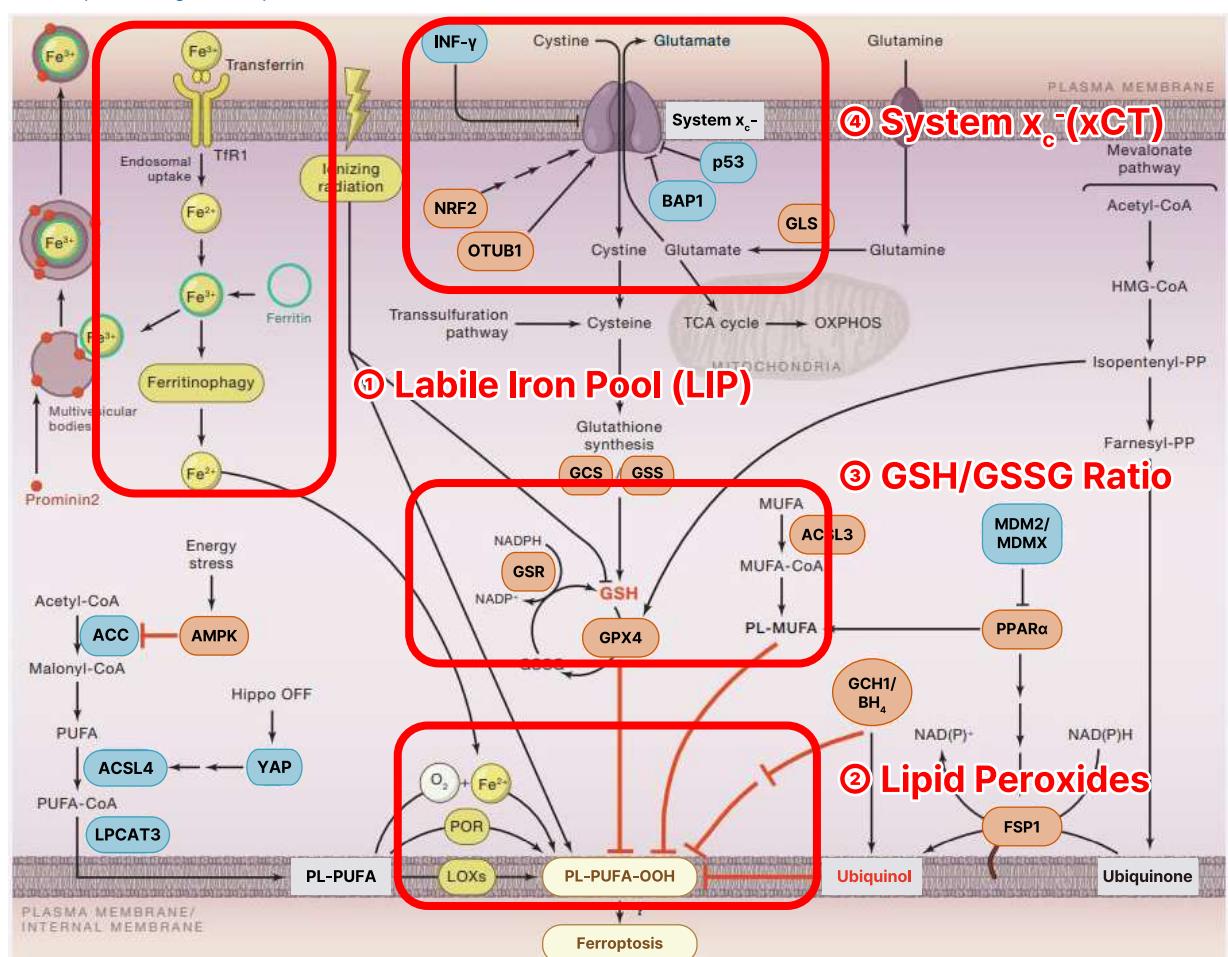
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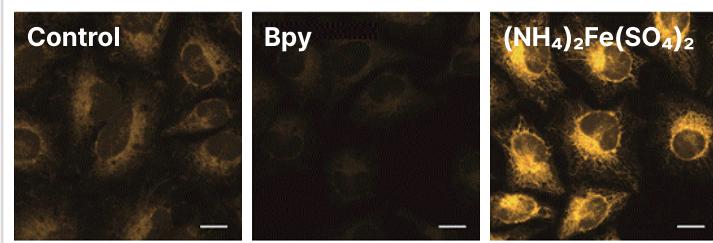
DOI: <https://doi.org/10.1016/j.cell.2020.04.039>



① Labile Iron Pool (LIP)

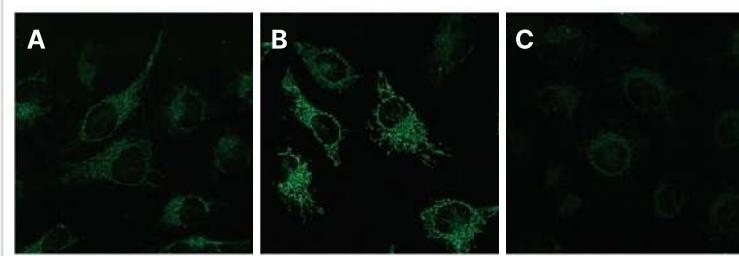
► FerroOrange – Cat# F374

Fluorescence Intensity reflects the intracellular Fe²⁺ concentration



► Mito-FerroGreen – Cat# M489

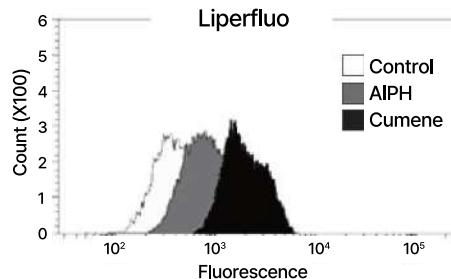
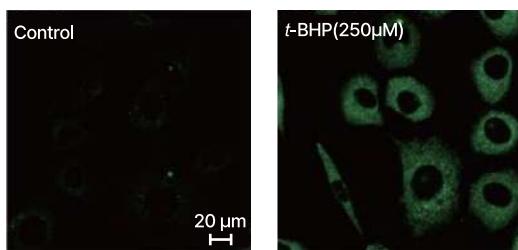
Fluorescence Intensity reflects the Mitochondrial Fe²⁺ concentration



② Lipid Peroxides

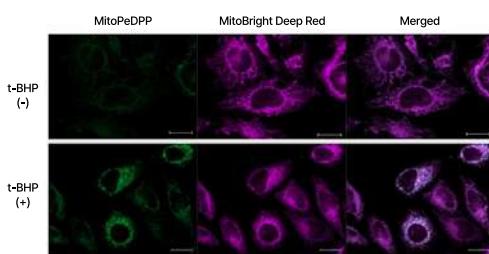
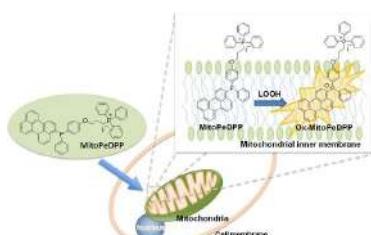
► Liperfluo - Cat# L248

Fluorescence Intensity reflects the Intracellular Lipid Peroxides

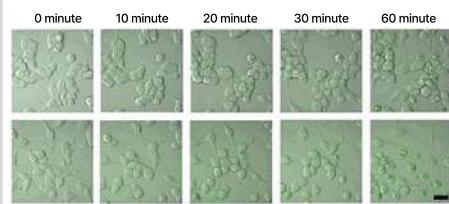


► MitoPeDPP – M466

Fluorescence Intensity reflects the Mitochondrial Lipid Peroxides



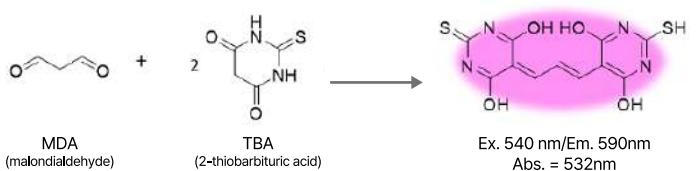
Monitor Lipid Peroxides in NIE 115 Cell



Data was kindly provided by Prof. Koji Fukui, Molecular Cell Biology Laboratory, Shibaura Institute of Technology. <https://doi.org/10.1080/10715762.2016.1227074>

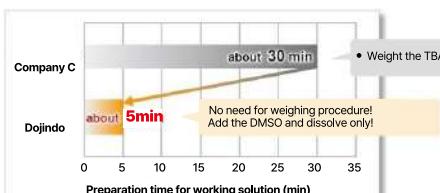
► MDA Assay Kit – M496

Principle of MDA Assay Kit



Fluorescence or Absorbance

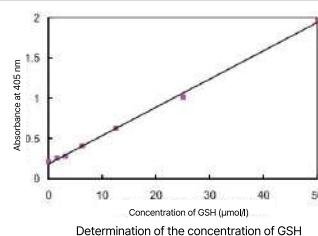
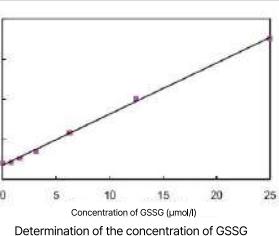
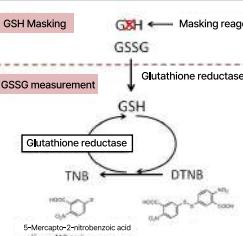
Simple Procedures, reduce preparation time



③ GSH/GSSG Ratio

► GSSG/GSH Quantification Kit – Cat# G257

Principle of GSSG/GSH Quantification Kit



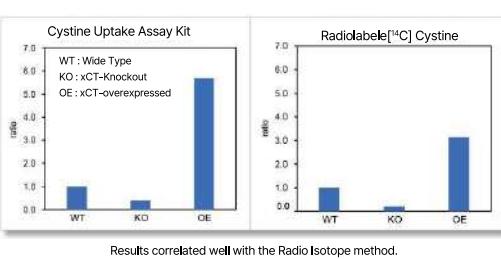
Simple procedure; only 1-2 hours



④ System x_c - (xCT)

► Cystine Uptake Assay Kit – Cat# UP05

Much easier & cheaper than Radiolabeled [¹⁴C] Cystine



Combination evaluation testing

