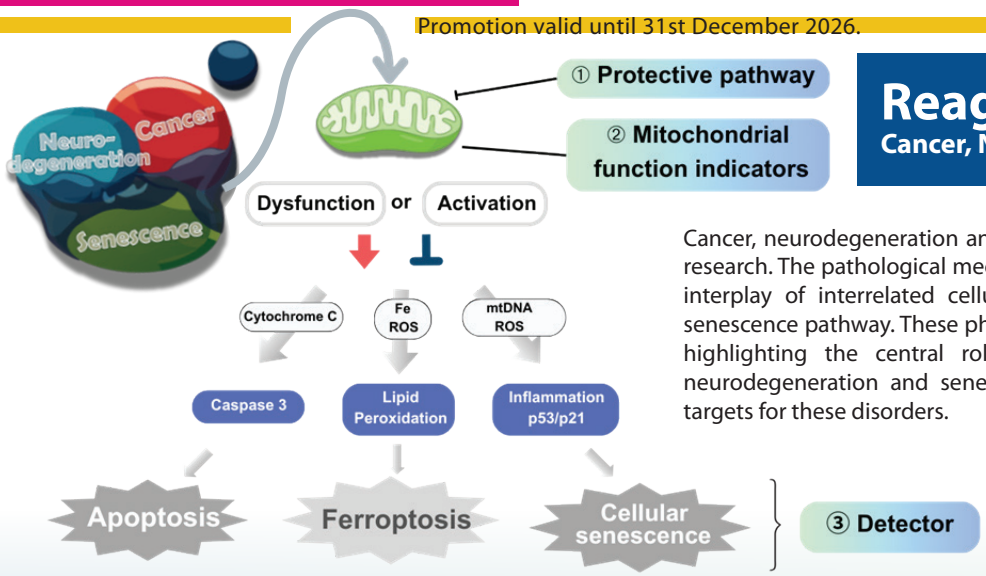
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Reagent Selection Guide for
Cancer, Neurodegeneration, and Senescence Research



Cancer, neurodegeneration and senescence are major areas of contemporary medical research. The pathological mechanisms underlying these conditions involve a complex interplay of interrelated cellular phenomena, such as cell death and the cellular senescence pathway. These phenomena are often centered on mitochondrial function, highlighting the central role of mitochondria in the pathogenesis of cancer, neurodegeneration and senescence, while also highlighting promising therapeutic targets for these disorders.

① Protective Pathway

▼ Autophagy

First-time autophagy research
- Autophagic Flux Assay Kit

Autophagy (Autolysosome) Detection
- DALGreen - Autophagy Detection

Autophagy (Autophagosome) Detection
- DAPGreen - Autophagy Detection

Autophagy (Autophagosome) Detection
- DAPRed - Autophagy Detection

▼ Mitophagy

Mitophagy Detection
- Mitophagy Detection Kit

▼ Lysosome

Lysosomal function
- Lysosomal Acidic pH Detection Kit - Green/Red and Green/Deep Red

Lysosomal pH Detection
- pHLys Red- Lysosomal Acidic pH Detection

Lysosomal mass detection
- LysoPrime Green- High Specificity and pH Resistance and Deep Red

② Mitochondrial function indicators

▼ Mitochondrial dysfunction

Mitochondrial membrane potential detection
- JC-1 MitoMP Detection Kit
- MT-1 MitoMP Detection Kit

ROS Detection
- ROS Assay Kit -Highly Sensitive DCFH-DA-
- ROS Assay Kit -Photo-oxidation Resistant DCFH-DA-

Mitochondrial superoxide detection
- MitoBright ROS - Mitochondrial Superoxide Detection

▼ Metabolic shift

Glycolysis/Oxidative phosphorylation assay
- Glycolysis/OXPHOS Assay Kit

Oxygen consumption rate assay
- Extracellular OCR Plate Assay Kit
- Intracellular Oxygen Assay Kit

③ Detectors

▼ Cell Cytotoxicity

Cellular dehydrogenase activity
- CCK-8 (Cell Counting Kit-8)

Released Lacate dehydrogenase (LDH)
- Cytotoxicity LDH Assay Kit-WST

▼ Apoptosis

Apoptosis detection (For plate reader)
- Annexin V Apoptosis Plate Assay Kit

ADP/ATP Ratio
- ADP/ATP Ratio Assay Kit-Luminescence

▼ Ferroptosis

Intracellular ferrous ion (Fe^{2+}) detection
- FerroOrange

Mitochondrial ferrous ion (Fe^{2+}) detection
- MitoFerro-Green

Lipid peroxidation detection (Intracellular)
- Liperfluo
- Lipid Peroxidation Probe -BDP 581/591 C11-
- MDA Assay Kit

Lipid peroxidation detection (Mitochondrial)
MitoPeDPP

▼ Senecence

SA-βGal detection
- SPiDER-βGal for live-cell imaging or flow cytometry
- SPiDER-βGal Blue for fixed cell and for multiple staining with immunostaining and other methods
- SPiDER-βGal for microplate reader
- SPiDER-βGal for tissue samples

Change of cell cycle
- Cell Cycle Assay Solution Deep Red
- Cell Cycle Assay Solution Blue

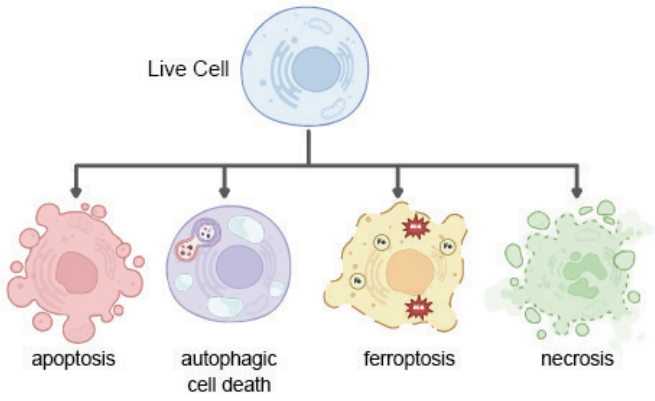
Nucleolar staining
- Nucleolus Bright Green
- Nucleolus Bright Red

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Cell Proliferation/Cytotoxicity Assay Cell Counting Kit-8



CK12
Cytotoxicity LDH Assay Kit-WST



E299
Extracellular ATP Assay Kit-Luminescence



AD12
Annexin V Apoptosis Plate Assay Kit



F374
Intracellular Iron Measurement FerroOrange



L267
Lipid Peroxidation Probe -BDP 581/591 C11-



R252
ROS Assay Kit -Highly Sensitive DCFH-DA-



R253
ROS Assay Kit -Photo-oxidation Resistant DCFH-DA-

