**Cell ageing and metabolism**

Antioxidants
- Catalase*, Gpx1, Gsr, Hsp70*, Sod1*, Sod2*, Sod3, Prdx1, Prdx2, Prdx3, Txn1

Senescence
- p53, p21, p16

DNA damage
- Gadd45g, Ku70, Ku80, Sirt6*

Master regulators
- Sirt1†, Bach1, Nrf2

Telomere Maintenance
- Pot1, Ku80, Trf1, Trf2

* Studies have shown increased lifespan with over expression.
† Original paper demonstrated a 30% increase in lifespan with over expressing Sirt1, however out breeding reduced this to a more modest 10%.
Antioxidants | Antibodies

- Catalase
  - IHC-F, IHC-P, ICC, WB, IP, ELISA, ICC/F
  - Species Reactivity: Mouse, Rat, Human, Cow, Chicken
  - Product Code: ab11877

- Glutathione Peroxidase 1
  - IHC-P, WB, ICC/F, IHC-F
  - Species Reactivity: Mouse, Rat, Cow, Human
  - Product Code: ab26304

- Glutathione Reductase
  - WB, Flow Cyt
  - Species Reactivity: Mouse, Rat, Human
  - Product Code: ab124995

- SOD1 [Nicotinamide adenine dinucleotide phosphate (NADPH) oxidoreductase]
  - Electron Microscopy, WB, IP, ELISA, ICC/F, Flow Cyt, IHC-F, IHC-P
  - Species Reactivity: Mouse, Rat, Sheep, Rabbit, Chicken, Guinea pig, Hamster, Cow, Dog, Pig, C. elegans, Carp, Fruit fly (Drosophila melanogaster), Monkey
  - Product Code: ab47455

- SOD2 [EPR2802]
  - IHC/F, IHC-P, WB, IP, ELISA, IHC-P
  - Species Reactivity: Mouse, Rat, Human
  - Product Code: ab110300

- Superoxide Dismutase 1
  - IHC-P, IHC-WB, IHC
  - Species Reactivity: Mouse, Rat, Human, African Green Monkey
  - Product Code: ab13486

- Peroxiredoxin 1
  - IHC-F, IHC-P, IHC-WB, ICC
  - Species Reactivity: Mouse, Rat, Human, African Green Monkey
  - Product Code: ab15571

- Peroxiredoxin 2 antibody [EPR1554]
  - WB, IHC-P, ICC/F
  - Species Reactivity: Mouse, Rat, Human
  - Product Code: ab109367

- Peroxiredoxin 3 antibody [EPR8115]
  - WB, IHC-P, ICC, Flow Cyt
  - Species Reactivity: Mouse
  - Product Code: ab128953

- Thioredoxin
  - IHC/F, IHC-P, IHC
  - Species Reactivity: Mouse, Human
  - Product Code: ab263062

Antioxidants | Kits

- Catalase Human ELISA Kit
  - 1 x 96
  - Species Reactivity: Human, Rat, Mouse
  - Product Code: ab124386

- Catalase Specific Activity Assay Kit
  - 1 x 96
  - Species Reactivity: Cell culture supernatant, Urine, Serum, Plasma, Platelets, Other biological fluids, Tissue Extracts
  - Product Code: ab118154

- Glutathione Peroxidase Assay Kit
  - 1 x 100
  - Species Reactivity: Cell culture supernatant, Urine, Serum, Plasma, Platelets, Other biological fluids, Tissue Extracts
  - Product Code: ab102503

- Glutathione Reductase (GSH) Assay Kit
  - 1 x 200
  - Species Reactivity: Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Tissue Extracts, Cell lysates
  - Product Code: ab9461

- Superoxide Dismutase Activity Assay Kit (Colorimetric)
  - 1 x 100
  - Species Reactivity: Urine, Serum, Plasma, Other biological fluids, Tissue Extracts, Cell lysates, Cell culture media
  - Product Code: ab65354

- Thioredoxin (TrxR) Reductase Assay Kit
  - 1 x 100
  - Species Reactivity: Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Tissue Extracts
  - Product Code: ab3463

- Total Antioxidant Capacity Assay Kit
  - 1 x 100
  - Species Reactivity: Lysates, plasma, serum, urine
  - Product Code: ab65329

- NAD/NADH Assay Kit
  - 1 x 100
  - Species Reactivity: Lysates, plasma, serum, urine
  - Product Code: ab65348

- NADPH/NADPH Assay Kit
  - 1 x 100
  - Species Reactivity: Lysates, plasma, serum, urine
  - Product Code: ab65348

Senescence | Antibodies

- p53 [Pab240]
  - Flow Cyt, IHC-F, IHC-P, ICC/F, WB, IHC-F
  - Species Reactivity: Mouse, Rat, Dog, Human
  - Product Code: ab268

- p21
  - IHC-F, IHC-WB, ICC/F, IHC-P, Flow Cyt
  - Species Reactivity: Mouse, Rat, Dog, Human
  - Product Code: ab7669

- p16 ARC
  - ICC/F, Flow Cyt, WB, IHC-F, IHC-P
  - Species Reactivity: Mouse, Rat, Dog, Human
  - Product Code: ab61243

Senescence | Kits

- p53 Human ELISA Kit
  - 1 x 96
  - Species Reactivity: Human
  - Product Code: ab117955

- p53 Phospho S46 Human ELISA Kit
  - 1 x 96
  - Species Reactivity: Human
  - Product Code: ab124532

DNA Damage | Antibodies

- ATM (E7122)
  - WB, Flow Cyt
  - Species Reactivity: Human, Mouse
  - Product Code: ab2114

- Ku70 [EPR3259]
  - WB, IHC-P, IHC-F, IHC/IC
  - Species Reactivity: Mouse, Rat, Human
  - Product Code: ab19935

- Ku80 [EPR11292]
  - IHC-F, Flow Cyt, IHC-P
  - Species Reactivity: Human, Mouse
  - Product Code: ab1306

- SIRT6
  - WB, IHC-F
  - Species Reactivity: Human
  - Product Code: ab13048

- Anti-PADEH + H2AX (Y159) + cleaved-PARP antibody [IE9, 9F3 and 4B5]
  - WB
  - Species Reactivity: Human
  - Product Code: ab13108

DNA Damage | Kits

- DNA Damage - AP sites - Assay Kit (Colorimetric)
  - 25
  - Species Reactivity: Purified damaged DNA
  - Product Code: ab65353

- In Situ Direct DNA Fragmentation Assay Kit (TUNEL assay)
  - 50
  - Species Reactivity: Adherent and suspension cells
  - Product Code: ab5333

- In Situ Budding Fragmentation Assay Kit (TUNEL assay)
  - 60
  - Species Reactivity: Tissue, adherent cells
  - Product Code: ab66108

- Master regulators | Antibodies

- BRCA1/BRIP1
  - WB
  - Species Reactivity: Human
  - Product Code: ab7288

- Ntr2
  - IHC-F, IHC/F, IHC-P, WB
  - Species Reactivity: Mouse, Rat, Human
  - Product Code: ab5333

- Master regulators | Kits

- SIRT1 Human ELISA Kit
  - 1 x 96
  - Species Reactivity: Tissue Extracts, Cell lysate
  - Product Code: ab117955

- SIRT1/p53 Human ELISA Kit
  - 1 x 96
  - Species Reactivity: Human
  - Product Code: ab128570

- SIRT1 Total and p53 Human In-Cell ELISA Kit (IR)
  - 1 x 96
  - Species Reactivity: Human
  - Product Code: ab13534

Telomere Maintenance | Antibodies

- POT1
  - WB, IHC-F, IHC/P, IHC/P, IHC/IC
  - Species Reactivity: Human
  - Product Code: ab2114

- TERT
  - IHC-F, WB, IHC/P, IHC/P, IHC/IC
  - Species Reactivity: Human
  - Product Code: ab13579

- Telomere Maintenance | Kits

- Exolent (EXPL10-01) + OmaStrip
  - 48 / 96
  - Species Reactivity: Mammalian DNA
  - Product Code: ab11711