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β-Galactosidase staining

In 1 collection

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Protocol status: Working
We use this protocol and it's working

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Abstract

β-Galactosidase staining

For cell staining

1 Culture cells on Matrigel-coated coverslips.

2 Fix cells with the fixation solution provided in the Senescence β-Galactosidase Staining Kit (Cat. number 9860; Cell Signaling Technology).

For tissue and organoid sections

3 Prepare 20 µm OCT-embedded sections by cryosectioning.

4 Mount sections on Epredia™ SuperFrost™ Plus slides (Fisher Scientific).

5 Refix sections with the fixation solution provided in the staining kit.

After fixation for both cells and sections

6 Perform β-Gal staining on both cells and sections according to the manufacturer's instructions.

7 Acquire images:
- Use a Leica DM750 brightfield microscope with a 40×/0.4 numerical aperture objective for cells.
- Use an EVOS M7000 Imaging System with a 20×/0.4 numerical aperture for tissue and organoid sections.