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β -Galactosidase staining

 In 1 collection

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Maria Jose Perez J.¹

¹Institut Imagine

Team Deleidi



Federico Bertoli

ASAP

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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 μ m OCT-embedded sections by cryosectioning.
- 4 Mount sections on EprepiaTM SuperFrostTM 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 $\times$ /0.4 numerical aperture objective for cells.
 - Use an EVOS M7000 Imaging System with a 20 $\times$ /0.4 numerical aperture for tissue and organoid sections.