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Labeling lysosomes in the adult Drosophila brain using LysoTracker

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Protocol status: Working

We use this protocol and it's working

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Abstract

This protocol describes the labeling and quantification of Lysosomes in the adult *Drosophila* brain using the LysoTracker dye



- 1 Prepare the working solution, 0.05 μM LysoTracker Green DND26, using 1X PBS
- 2 Brains from 10-day-old animals are dissected in ice-cold 1X PBS
- 3 The dissected brain is transferred to a glass slide, and the excess 1X PBS removed
- 4 The brains are re-incubated with 0.05 μM LysoTracker for  00:05:00 at  Room temperature
- 5 After 5 minutes, the excess solution is removed, a drop of DAPI Fluoromount added, and the brain mounted with a coverslip
- 6 Brains re imaged immediately using a Zeiss confocal microscope under a 63X objective lens
- 7 The number of puncta per 1000 μm^2 is counted in Zen software

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