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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 5m

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