

FUJIFILM**Wako**

Code No. 190-18661 (10 mL)

Super Clear Mount

[Introduction]

Super Clear Mount is a ready-to-use mountant that designed match the refractive indices of oil (1.518), minimizing spherical aberrations for high-oil-immersion objective lenses. Super Clear Mount is particularly powerful in confocal and super-resolution microscopy using high-NA objective lenses. It is noteworthy that many of fluorescent proteins are highly preserved in Super Clear Mount much better than in PBS or other commercialized mounting media optimized for fluorescent dyes. Thus, Super Clear Mount is an ideal mounting medium for samples labeled with fluorescent proteins.

[Package]

Super Clear Mount

10 mL × 1 bottle

[Storage]

Stored in the dark.

[Procedure]

1. Apply 60-100 μ L of the mountant directly to the specimen, then the Super Clear Mount sample with oil-immersion objective lens.

[Note]

- The sample using Super Clear Mount should not be exposed to the air for long term, because the surface may become sticky due to water evaporation. Super Clear Mount cannot be used as an immersion solution.
- The sample using Super Clear Mount will not be solidified. If necessary for small samples, 0.1% low-melting agarose (e.g., UltraPure Low Melting Point Agarose from Thermo Fisher) can be added to minimize movement artifacts during imaging.
- While Super Clear Mount protect fluorescent proteins from photobleaching, some of chemical dyes (e.g., Alexa Fluor dyes) are sensitive to photobleaching in Super Clear Mount.

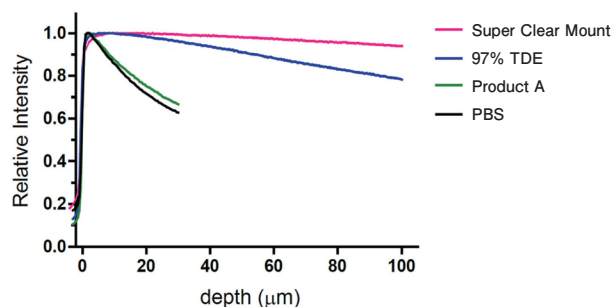


Figure 1. Improved axial resolution in rhodamine dye.

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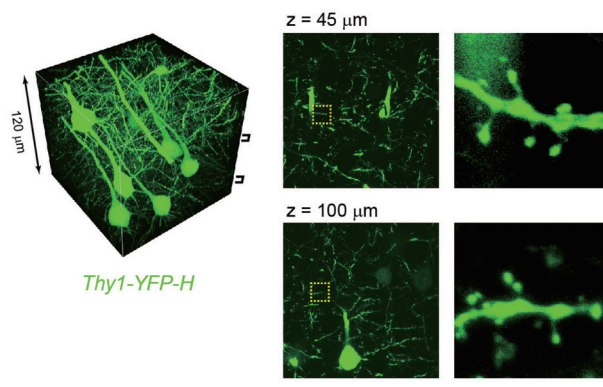


Figure 2. High-resolution confocal imaging of Thy1-YFP-H mouse brain slices (cerebral cortex) using an oil-immersion objective lens (100 × ; NA 1.40 ; WD 0.13 mm).

[Reference]

Ke et al., *Cell Reports* **14**, 2718 (2016)SeeDB Resources (<https://sites.google.com/site/seedbresources/>) : updated information and technical TIPs from the authors.

[Related Product]

Product name	Wako cat. No.	Package Size	Storage	Grade
See Through Chamber, 0.3mm thick	294-35631	10 set	Keep at RT	Tissue Optical Clearing Reagent
See Through Chamber, 0.5mm thick	291-35641	10 set	Keep at RT	Tissue Optical Clearing Reagent
See Through Chamber, 1.0mm thick	295-35661	10 set	Keep at RT	Tissue Optical Clearing Reagent
See Through Chamber, 2.0mm thick	292-35671	10 set	Keep at RT	Tissue Optical Clearing Reagent
See Through Chamber, 3.0mm thick	299-35681	10 set	Keep at RT	Tissue Optical Clearing Reagent
See DB2 Trial Kit	294-80701	1 kit	Keep at RT	Tissue Optical Clearing Reagent

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