

Materials List for:

# Dissection and Immunohistochemistry of Larval, Pupal and Adult *Drosophila* Retinas

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URL: <https://www.jove.com/video/4347>

DOI: [doi:10.3791/4347](https://doi.org/10.3791/4347)

## Materials

Name	Company	Catalog Number	Comments
			<b>Reagent</b>
Phosphate-buffered saline (PBS1x, pH 7.4)	Sigma		Prepare 10x stock solution 20. Dilute with distilled water to obtain 1x PBS and store at room temperature. Cool on ice before dissections.
Triton-X 100	Sigma	9002-93-1	<b>Caution: Irritant!</b> Wear gloves. Prepare 50 ml 1xPBS with 0.3% Triton X-100 (PBST). Store at room temperature.
37% formaldehyde solution	Fisher Scientific	F75P1GAL	<b>Caution: Toxic, probable human carcinogen!</b> Wear gloves. Before the fixation step, freshly prepare 3.7% solution in a chemical fume hood by diluting with PBS, store on ice.
5% normal horse serum	Jackson Immuno Research	008-000-001	Prepare 5% v/v dilution in PBST. Store at four degrees.
Primary and secondary antibodies (e.g. Donkey anti-sheep Alexa Fluor 488, Donkey-anti rabbit Alexa Fluor 555, Donkey anti-mouse Alexa Fluor 647)	Invitrogen Molecular Probes	A11015 A31572 A31571	Dilute secondary antibodies 1:800 in PBST and store at four degrees.
Alexa Fluor 488 Phalloidin		A12379	Dilute 1:100 in secondary antibody solution.
Slowfade Gold Antifade reagent	Invitrogen Molecular Probes	S36936	Mounting medium. Store at -20 degrees.
Glycerol	Fisher Scientific	G31-1	For mounting. Prepare 10 ml of 50% dilution with distilled water, store at room temp.
CO <sub>2</sub>			For anesthetizing adult flies.
			<b>Equipment</b>
Two sharp forceps (Dumont #55)	Fine Science Tools	11255-20	
Sylgard 184 Silicone Elastomer Kit	Dow Corning		Prepare Sylgard dissection dish by filling a plastic Petri dish with Sylgard mixture.
Three-well glass dissection dishes	Fisher Scientific	21-379	
Two minutien dissecting pins (0.1 mm diameter) and two pinholders (12 cm)	Fine Science tools	26002-10	Insert one minutien pin in each of the two pinholders and bend one of the pins to form a hook.
Microscope cover slips (22x22-1 and 24x40-1)	Fisher Scientific	12-542A	

Microscope slides (25x75x1.0 mm; precleaned)	Fisher Scientific	12-550-143	
1.5 ml microcentrifuge tubes			
Clear nail polish or Scotch tape			
Orbital shaker	Bellco		
Slide holder box	Fisher Scientific		
Parafilm	Bemis	PM996	
Thin paintbrush			
P20 and P200 micropipettes and tips			
Dissecting microscope			
Small bucket with ice			For cooling the glass well plates, dissected retinas and solutions.