

**Materials List for:**

# **Primer for Immunohistochemistry on Cryosectioned Rat Brain Tissue: Example Staining for Microglia and Neurons**

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## **Materials**

<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
Fisherbrand Superfrost Plus Glass Slides	Fisher Scientific	22-034-979	Used for tissue mounting (1.2.2)
Oven	Thermo Scientific	51028112	Used for tissue drying (2.1.1)
Mini Pap pen	Life Technologies	00-8877	Used in step 2.2.2
Andwin Scientific Tissue-tek Slide Staining Dish	Fisher Scientific	22-149-429	Used for all washes during staining (2.2), as well as the Hoechst step (2.2.8)
Kimwipes	Fisher Scientific	06-666-A	Used for drying slides (2.2)
Black Staining Box	Ted Pella	21050	Used for blocking and staining steps (2.2)
Normal Donkey Serum	Fisher Scientific	50-413-253	Used for block and antibody incubation (2.2)
Mouse $\alpha$ -Pan-neuronal	Millipore	MAB2300	Used for primary antibody (2.2.4)
Rabbit $\alpha$ -Iba1	Wako Chemical	019-19741	Used for primary antibody (2.2.4)
Donkey $\alpha$ -rabbit 594	Jackson ImmunoResearch	711-585-152	Used for secondary antibody (2.2.6)
Donkey $\alpha$ -mouse 488	Jackson ImmunoResearch	715-545-150	Used for secondary antibody (2.2.6)
Caterer's foil	Any	N/A	Used in steps 1.2.2 and 2.3.2
Fluoromount-G	Southern Biotech	0100-01	Used for coverslipping (2.2.8)
Coverslips	Fisher Scientific	12544E	Used for coverslipping (2.2.8)
Clear Nail Polish	Any	N/A	Used for coverslipping (2.2.8)
Axio Observer.Z1 and LSM 710 (laser scanning, confocal)	Carl Zeiss	N/A	Used for imaging (3)
Axioskop A2	Carl Zeiss	N/A	Used for imaging (3)
CitriSolv	FisherScientific		For DAB protocol
ABC	Vector Laboratories	PK-6100	For DAB protocol
DAB Peroxidase kit	Vector Laboratories	SK-4100	For DAB protocol
Biotinylated horse $\alpha$ -rabbit IgG	Vector Laboratories	BA-1100	For DAB protocol
Biotinylated horse $\alpha$ -mouse IgG	Vector Laboratories	BA-2001	For DAB protocol
30% Hydrogen Peroxide	FisherScientific	H325-500	For DAB protocol
Wheaton slide racks and staining dishes	TedPella	21043	For DAB protocol

Masterflex perfusion pump and tubing	Cole-Parmer		Used for perfusion (1.1.1 and 1.1.2)
Andwin scientific tissue-tek CRYO-OCT compound (case of 12)	Fisher Scientific	14-373-65	Used for tissue freezing (1.2.1)
Thermometer (-50 to 50 C)	Fisher Scientific	15-059-228	Used for tissue freezing (1.2.1)
Cryostat	Leica	CM3500S	Used for tissue sectioning (1.2.2)
Staining Dish, Plastic with 2 Lids	Grafe Scientific	353	For antigen retrieval
20 Place Staining Rack, Slides Horizontal	Grafe Scientific	354	For antigen retrieval
Microwave	Any	N/A	For antigen retrieval