

Materials List for:

# Detection of Modified Forms of Cytosine Using Sensitive Immunohistochemistry

Abdulkadir Abakir<sup>1</sup>, Lee Wheldon<sup>2</sup>, Andrew D. Johnson<sup>3</sup>, Patrick Laurent<sup>1</sup>, Alexey Ruzov<sup>4</sup>

<sup>1</sup>Laboratoire de Neurophysiologie (CP601), ULB Neuroscience Institute (UNI), Université Libre de Bruxelles

<sup>2</sup>Medical Molecular Sciences, Centre for Biomolecular Sciences, University of Nottingham

<sup>3</sup>School of Life Sciences, University of Nottingham

<sup>4</sup>Division of Cancer and Stem Cells, Centre for Biomolecular Sciences, School of Medicine, University of Nottingham

Correspondence to: Alexey Ruzov at [Alexey.Ruzov@nottingham.ac.uk](mailto:Alexey.Ruzov@nottingham.ac.uk)

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## Materials

Name	Company	Catalog Number	Comments
Coplin jar	Cole-Parmer	UY-48585-30	Glass made
Xylene			Use only in Class II safety cabinet
Phosphate buffer saline (PBS)	Fisher Scientific	12821680	pH 7.5, filtered before use
4% paraformaldehyde (PFA)	Sigma Aldrich	P6148	Once made can be stored at -20 °C in aliquotes for several months
4% formaldehyde (FA)	Sigma Aldrich	F8775	Once made can be stored at -20 °C in aliquotes for several months
Ethanol, anhydrous denatured, histological grade	Sigma Aldrich	64-17-5	95, 75, 50% in PBS
0.01% Tween 20 in PBS	Sigma Aldrich	P9416	PBT
0.5% Triton X-100 in PBS	Sigma Aldrich	X100	PBX
2 N HCl	Sigma Aldrich	71826	caution extremely toxic
100 mM Tris-HCl	Promega	H5121	pH adjusted to 8.5
hydrophobic barrier pen	Abcam	ab2601	for immunohistochemistry
Slide moisture chamber	Scientific Device Laboratory	197-BL	
anti-5mC mouse antibody	Diagenode	C15200081	monoclonal primary antibody
Anti-5hmC antibody	Active Motif	39791	rabbit polyclonal primary antibody
Anti-5caC antibody	Active Motif	61225	rabbit polyclonal primary antibody
Peroxidase-conjugated anti-rabbit secondary antibody	Dako	K1497	
555-conjugated goat anti-mouse antibody	Molecular probes	A-11005	secondary antibody
10% BSA	Sigma Aldrich	A9418	Blocking solution
22 x 32 mm Glass cover slips	BDH	406/0188/24	
Tyramide Signal Amplification System	Perkin Elmer	NEL741001KT	Other fluorochrome conjugated secondary antibodies can be used for co-detection of oxi-5mC
Mounting Medium with DAPI	Vector Labs	H-1200	
Colourless nail polish			
chicken polyclonal anti-GFAP polyclonal antibody	Thermo Scientific	PA5-18598	1:400 dilution
anti-NeuN mouse monoclonal antibody	Merck milipore	MAB377B	1:400 dilution