

Materials List for:

Visualization of Mitochondrial DNA Replication in Individual Cells by EdU Signal Amplification

Kristine M. Haines¹, Eva L. Feldman², Stephen I. Lentz³

¹Michigan Research Community, Undergraduate Research Opportunity Program, University of Michigan

²Department of Neurology, University of Michigan

³Department of Internal Medicine, Division of Metabolism, Endocrinology, and Diabetes, University of Michigan

Correspondence to: Stephen I. Lentz at lentzs@umich.edu

URL: <https://www.jove.com/video/2147>

DOI: [doi:10.3791/2147](https://doi.org/10.3791/2147)

Materials

Name	Company	Catalog Number	Comments
12 mm coverslips	Fisher Scientific	12-545-82	
245 mm x 245 mm BioAssay Dish	Corning	431111	
Parafilm M	Fisher Scientific	PM-996	
paraformaldehyde	Sigma-Aldrich	P6148	
Triton X-100	Sigma-Aldrich	T-8532	
Phosphate buffered saline 10X solution	Fisher Scientific	BP399	
Transfer Pipet	Fisher Scientific	13-711-7M	
Hydrogen peroxide, 30% in water	Fisher Scientific	BP2633	
Click-iT EdU Microplate Assay Kit	Invitrogen	C10214	
TSA Kit #12, with HRP—goat anti-rabbit IgG and Alexa Fluor 488 tyramide	Invitrogen	T20922	
TSA Kit #15, with HRP—goat anti-rabbit IgG and Alexa Fluor 594 tyramide	Invitrogen	T20925	
ProLong Gold antifade reagent with DAPI	Invitrogen	P-36931	
Polyclonal rabbit Neurofilament antibody	Chemicon International	AB1981	
Mouse monoclonal anti-BrdU antibody	Vector Laboratories	VP-B209	
TSA Kit #2, with HRP—goat anti-mouse IgG and Alexa Fluor 488 tyramide	Invitrogen	T20912	
TSA Kit #5, with HRP—goat anti-mouse IgG and Alexa Fluor 594 tyramide	Invitrogen	T20915	