

Materials List for

Single-cell Multiplexed Fluorescence Imaging to Visualize Viral Nucleic Acids and Proteins and Monitor HIV, HTLV, HBV, HCV, Zika Virus, and Influenza Infection

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Citation

Shah, R., Lan, S., Puray-Chavez, M.N., Liu, D., Tedbury, P.R., Sarafianos, S.G. Single-cell Multiplexed Fluorescence Imaging to Visualize Viral Nucleic Acids and Proteins and Monitor HIV, HTLV, HBV, HCV, Zika Virus, and Influenza Infection. *J. Vis. Exp.* (), e61843, doi:10.3791/61843 (2020).

Date Published

October 29, 2020

DOI

10.3791/61843

URL

jove.com/video/61843

Materials

Name	Company	Catalog Number	Comments
4% PFA			
50% dextran sulfate	Amreso	198	For DNA hybridization buffer
50X wash buffer	ACD Bio	320058	
6-well plates			
Amplifier 1-FL	ACD Bio		
Amplifier 2-FL	ACD Bio		
Amplifier 3-FL	ACD Bio		
Amplifier 4-FL	ACD Bio		Consult Amp-4 table in protocol
Anti-HCV NS5a antibody	Abcam	ab13833	Mouse monoclonal; works with HCV genotypes 1a, 1b, 3, and 4
Anti-HIV-1 p24 monoclonal antibody	NIH AIDS Reagent Program	3537	
Anti-Mov10 antibody	Abcam	ab80613	Rabbit polyclonal
Anti-PB1 antibody	GeneTex	GTX125923	Antibody against flu protein
Bovine serum albumin			Blocking reagent for immunostaining
Cell media with supplements			Media appropriate for cell model
Coverslips			
DAPI	ACD Bio		Nuclear stain (RNAscope kit from ACD Bio)
Dulbecco's phosphate buffered saline (1X PBS)	Gibco	14190250	No calcium and magnesium
Ethylene carbonate	Sigma	E26258	
Fetal bovine serum (FBS)			Use specific FBS based on what serum secondary antibody was raised in (e.g goat FBS)

Fisherbrand colorfrost plus microscope slides	Fisher Scientific	12-550-17/18/19	Precleaned
HCV-GT2a-sense-C2 probe	ACD Bio	441371	HCV(+) sense RNA probe
HIV-gagpol-C1	ACD Bio	317701	HIV-1 cDNA probe
HIV-nongagpol-C3	ACD Bio	317711-C	HIV-1 RNA probe
HybEZ hybridization oven	ACD Bio	321710/321720	
ImmEdge hydrophobic barrier pen	Vector Laboratories	H-4000	
Nail polish			For immobilizing coverslip to slide prior to protease treatment
Nuclease free water	Ambion	AM9937	
Poly-d-lysine (PDL)			Coat coverslips in 20 µg/mL of PDL for 30 minutes
Probe diluent	ACD Bio	300041	For diluting RNA C2 or C3 probes
Prolong gold antifade	Invitrogen	P36930	
Protease III	ACD Bio	322337	
RNAscope® Probe- V-Influenza-H1N1-H5N1-NP	ACD Bio	436221	
RNase A	Qiagen		
Secondary antibodies			
Slides			
Sodium chloride			For DNA hybridization buffer
Sodium citrate, pH 6.2			For DNA hybridization buffer
Tween-20			For DNA hybridization buffer and PBS-T
V-HBV-GTD	ACD Bio	441351	Total HBV RNA
V-HBV-GTD-01-C2	ACD Bio	465531-C2	HBV pgRNA probe
V-HCV-GT2a probe	ACD Bio	441361	HCV(-) sense RNA probe
V-HTLV-HBZ-sense-C3	ACD Bio	495071-C3	HTLV-1 (-) sense RNA probe targeting HBZ
V-HTLV1-GAG-C2	ACD Bio	495051-C2	HTLV-1 DNA probe
V-HTLV1-GAG-POL-sense	ACD Bio	495061	HTLV-1 (+) sense RNA probe
V-Influenza-H1N1-H5N1-NP	ACD Bio	436221	IAV RNA probe
V-ZIKA-pp-O2	ACD Bio	464531	Zika(+) sense RNA probe
V-ZIKA-pp-O2-sense-C2	ACD Bio	478731-C2	Zika(-) sense RNA probe