

Materials List for:

Evaluation of Zika Virus-specific T-cell Responses in Immunoprivileged Organs of Infected *Ifnar1^{-/-}* Mice

Yongli Zhang^{1,2}, Hangjie Zhang², Wenqiang Ma³, Kefang Liu^{1,2}, Min Zhao⁴, Yingze Zhao², Xuancheng Lu⁵, Fuping Zhang⁶, Xiangdong Li³, George F. Gao^{1,2,4,6}, William J. Liu^{1,2}

¹School of Laboratory Medicine and Life Sciences, Wenzhou Medical University

²NHC Key Laboratory of Medical Virology and Viral Diseases, National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention

³State Key Laboratory of Agrobiotechnology, College of Biological Sciences, China Agricultural University

⁴Research Network of Immunity and Health (RNiH), Beijing Institutes of Life Science, Chinese Academy of Sciences

⁵Laboratory Animal Center, Chinese Center for Disease Control and Prevention

⁶CAS Key Laboratory of Pathogenic Microbiology and Immunology, Institute of Microbiology, Chinese Academy of Sciences

* These authors contributed equally

Correspondence to: Xiangdong Li at xiangdongli@cau.edu.cn, George F. Gao at gaof@im.ac.cn, William J. Liu at liujun@ivdc.chinacdc.cn

URL: <https://www.jove.com/video/58110>

DOI: [doi:10.3791/58110](https://doi.org/10.3791/58110)

Materials

Name	Company	Catalog Number	Comments
Z6	our lab		Ma W, Li S, Ma S, <i>et al.</i> Zika virus causes testis damage and leads to male infertility in mice. <i>Cell</i> , 2016, 167: 1511-1524 e1510
CD3	Santa Cruz	sc-1127; RRID: AB_631128	
Fluorescein-Conjugated Affinipure Goat anti-human IgG(H+L)	ZSGB-BIO	ZF-0308	
Rabbit Anti-Goat IgG, FITC Conjugated	CWBIO	CW0115	
FITC anti-mouse CD3	Biologend	17A2	
APC anti-mouse CD3	Biologend	100236	
PerCP anti-mouse CD8a	Biologend	100732	
Percoll	GE Healthcare	P8370	
PMSF	Ameresco	0754-5G	Toxic and corrosive reagent. Handle with care
Streptavidin	BD	S4762-FZ	Gives a clear solution at 10mg/ml in PBS and stored at -20 °C
Pepstatin	Sigma	P4265-5MG	5 mg in 2.5 mL DMSO, aliquots stored at -20 °C
Leupeptin	Sigma	L8511	5 mg in 2.5 mL dH ₂ O, aliquots stored at -20 °C
Peptides	Scilight-peptide		Must be resuspended in DMSO and stored at -20 °C
RPMI 1640	Hyclone	SH30809.01	Must be stored at 4 °C
DMSO	MP	219605590	Store at room temperature.
APC-Streptavidin	BD	554067	Must be stored and maintained at 4 °C. Do not freeze.
FITC-Streptavidin	BD	554060	Must be stored and maintained at 4 °C. Do not freeze.
PE-Streptavidin	BD	554061	Must be stored and maintained at 4 °C. Do not freeze.
BV421-Streptavidin	BD	563259	Must be stored and maintained at

			4 °C. Do not freeze.
PageRuler Unstained Protein Ladder	Thermo Fisher Scientific	26614	Must be stored at 4 °C
Cell Strainers	BF	BF10-5040	Store at room temperature.
Amicon Ultra 100 kDa	Millipore	UFC510024	Store at room temperature.
Ultracentrifuge	Thermo Fisher Scientific		
FACS Cantol			Flow cytometer must contain lasers and filters that are compatible with the staining panel used.
Superdex 200 Increase 10/300 GL	GE healthcare	28990944	
AKTA PURE	GE healthcare		
red blood cell lysis buffer	Solarbio	R1010	Store at 4 °C.