

Materials List for:

Molecular Diffusion in Plasma Membranes of Primary Lymphocytes Measured by Fluorescence Correlation Spectroscopy

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URL: <https://www.jove.com/video/54756>

DOI: [doi:10.3791/54756](https://doi.org/10.3791/54756)

Materials

Name	Company	Catalog Number	Comments
MACS NK Cell Isolation Kit mouse II	Miltenyi Biotec Norden ^{AB}	130-096-892	Negative selection of NK cells
Fetal Bovine Serum	Sigma-Aldrich	F7524	Heat inactivated
Phosphate Buffered Saline	-	-	Made in house
Roswell Park Memorial Institute medium 1640	PAA The Cell Culture Company	E15-848	Transparent medium
Antibody clone 2.4G2	Thermo Fischer Scientific	553140	For blocking Fc-receptors.
Anti-Ly49A antibody			Monoclonal antibody made in house and conjugated in house to Alexa fluor 647
Clone JR9.318			
Anti-H-2Dd antibody	BD Pharmingen	558915	Conjugated in house to MFP488
Clone 34.5.8S			
MFP488	Mobiotech	MFP-A2181	Fluorescent dye for antibody conjugation.
Poly-L-Lysine	Sigma-Aldrich	P8920	Diluted in distilled water (1.10)
Poly-L-Lysine (20 kDa) grafted with polyethylene glycol (2 kDa)	SuSoS AG	PLL(20)-g[3.5]-PEG(2)	Diluted in PBS (pH 7.4) to 0.5 mg/ml.
Rhodamine 110 chloride	Sigma-Aldrich	432202	Known diffusion coefficient: $3.3 \times 10^{-10} \text{ m}^2/\text{sec}$ ¹⁹
Alexa fluor 647	Thermo Fisher Scientific	A20006	Known diffusion coefficient: $4.4 \times 10^{-10} \text{ m}^2/\text{sec}$ ²⁰
Confocal microscope	Zeiss	LSM510	
Software: Confocor 3	Zeiss		
Software: Matlab with curve fitting toolbox	Matlab	Version R2013b	
Nunc Lab-Tek Chambered Coverglass	Thermo-scientific	155411	8 wells, 1.0 borosilicate bottom