

Immunostaining-Based Detection of Dynamic Alterations in Red Blood Cell Proteins

 Marijke Grau¹, Lennart Kuck²
¹Department of Molecular and Cellular Sports Medicine, German Sport University Cologne ²Biorheology Research Laboratory, Menzies Health Institute, Griffith University Gold Coast

Corresponding Author

Marijke Grau

M.Grau@dshs-koeln.de

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jove.com/video/64843

Materials

Name	Company	Catalog Number	Comments
3,3'-Diaminobenzidin - tetrahydrochloride Hydrate	Sigma/Merck	D5637	DAB
Ammoniumchloride	Merck /Millipore	101145	NH ₄ Cl
Centrifuge 5427 R	Eppendorf	5409000010	
Coverslips	VWR	631-0147	
di-sodium Hydrogen Phosphate Dihydrate	Merck /Millipore	106580	Na ₂ HPO ₄ · 2 H ₂ O
Disposable transfer pipettes	VWR	612-6803	
Entellan	Merck /Millipore	107961	rapid mounting medium for microscopy
Ethanol denaturated using 1 % methyl ethyl ketone (MEK)	Hofmann	642	
Glucose-Oxidase	Sigma/Merck	G2133	
Grease pencil	Dako	S 2002	
Horse-radish peroxidase/ExtrAvidin -Peroxidase	Sigma/Merck	E-2886	HRP
Hydrochloric acid	Merck /Millipore	109057	HCl
Hydrogen peroxide, 30%	Merck /Millipore	107203	H ₂ O ₂
ImageJ Software	Freeware		
Laser-assisted optical rotational cell analyser (LORCA)	RR Mechatronics		Ektacytometer instrument used for shearing
Methanol	Merck /Millipore	106009	
Microscope slides	VWR	630-1985	
Nickel(II)-sulfate Hexahydrate	Sigma/Merck	N4882	NiSO ₄ · 6H ₂ O
Normal Goat serum	Agilent/DAKO	X0907	NGS
Paraformaldehyde	Merck /Millipore	818715	PFA
Pipettes Eppendorf Reference 2	VWR	613-5836/ 613-5839	
Rabbit Anti-phospho eNOS Antibody (Ser1177)	Merck/Millipore	07-428-I	Primary Antibody

Reaction tubes, 2ml	Eppendorf	30120094	
Secondary Antibody goat anti rabbit	Agilent/DAKO	E0432	Secondary Antibody
Skim milk powder	Bio-Rad	170-6404	
Sodium chloride	Merck /Millipore	106404	NaCl
Sodium Dihydrogen Phosphate Monohydrate	Merck /Millipore	106346	NaH ₂ PO ₄ ·H ₂ O
Sodium hydroxide, 1 M	Merck /Millipore	150706	NaOH
Tris(hydroxymethyl)-aminomethane	Merck /Millipore	108382	Tris
Trypsin	Sigma/Merck	T7409	
Tween20	Merck /Millipore	822184	
Whatman Glas microfiber filter, quality GF/F	Merck /Millipore	WHA1825047	
Xylo	VWR Chemicals	2,89,73,465	
β-D-Glucose monohydrate	Merck /Millipore	14431-43-7	