

Materials List for:

Development and Validation of an Ultrasensitive Single Molecule Array Digital Enzyme-linked Immunosorbent Assay for Human Interferon- α

Alba Llibre^{*1,2}, Vincent Bondet^{*1,2}, Mathieu P. Rodero³, David Hunt⁴, Yanick J. Crow^{3,5}, Darragh Duffy^{1,2}

¹Immunobiology of Dendritic Cells, Institut Pasteur

²INSERM U1223

³Laboratory of Neurogenetics and Neuroinflammation, INSERM UMR1163, Institut Imagine

⁴MRC Human Genetics Unit, MRC Institute of Genetics and Molecular Medicine, University of Edinburgh

⁵Manchester Centre for Genomic Medicine, University of Manchester

*These authors contributed equally

Correspondence to: Darragh Duffy at darragh.duffy@pasteur.fr

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Materials

Name	Company	Catalog Number	Comments
Anti-IFN- α antibody A (8H1 clone)	ImmunoQure AG	NA	Not commercially available
Anti-IFN- α antibody B (12H5 clone)	ImmunoQure AG	NA	Not commercially available
Anti-IFN- α antibody EBI-1 clone	eBioscience	BMS216C	
Anti-IFN- α antibody BMS216BK clone	eBioscience	BMS216BK	Not an ELISA kit but bulk abs
IFN α 2c	eBioscience	BMS305	OK
IFN α 1 (17)	PBL	11150-1	
IFN α 2a	PBL	11100-1	
IFN α 2a	PeptoTech	No longer available	
IFN α 2b	PBL	11105-1	
IFN α 1	PBL	11175-1	
IFN α 4a (M1)	PBL	11177-1	
IFN α 4b (a4)	PBL	11180-1	
IFN α B2 (a8)	PBL	11115-1	
IFN α C (a10)	PBL	11120-1	
IFN α D (a1)	PBL	11125-1	
IFN α G (a5)	PBL	11135-1	
IFN α F (a21)	PBL	11130-1	
IFN α H2 (a14)	PBL	11145-1	
IFN α J1 (a7)	PBL	11160-1	
IFN α K (a6)	PBL	11165-1	
IFN α WA (a16)	PBL	11190-1	
IFN λ 1	PeptoTech	300-02L	
IFN λ 2	PeptoTech	300-02K	
IFN ω	PeptoTech	300-02J	
IFN β	PeptoTech	300-02BC	
IFN γ	PeptoTech	300-02	
Anti-IFN- α ELISA	PBL	41115.1	
96-well plates	Corning	3904	
ISRE-Reporter	Qiagen	CCS-008L	

Fu-GENE HD Transfection Reagent	Promega	E2311	
Opti-MEM Reduced Serum Medium	ThermoFischer Scientific	31985062	
Dual-Luciferase Reporter assay	Promega	E1910	
Nonidet P40 Substitute	Sigma-Aldrich	74385	
Spectrophotometer NanoDrop 1000	Thermo Scientific	No longer available	
Amicon microcentrifuge tubes - 0.5mL filters	Merck Millipore	UFC505096	
Bead Conjugation Buffer	Quanterix	102040	Can not be ordered separately
Non-Encoded Paramagnetic Beads	Quanterix	101360	
Bead Wash Buffer	Quanterix	102040	Can not be ordered separately
EDC	Fisher Scientific	11844071	
Bead Blocking Buffer	Quanterix	102040	Can not be ordered separately
Bead Diluent Buffer	Quanterix	101362	
Detector and Sample Diluent	Quanterix	101359	
Biotinylation Reaction Buffer	Quanterix	102040	Can not be ordered separately
NHS-PEG4-Biotin	Fisher Scientific	11891195	
diH ₂ O			
Centrifuge for 1.7mL microcentrifuge tubes (Heraeus Fresco 21 Centrifuge)	Thermo Scientific	75002478	
Standard laboratory vortex mixer (MS2 Minishaker)	IKA	MS2	
Pipettes (10, 20, 200 and 1000 µl)	Thermo Scientific		
Tips (10, 20, 200 and 1000 µl)	Thermo Scientific		
1.7mL microcentrifuge tubes	Eppendorf		
Magnetic separator that accomodates 1.7mL microcentrifuge tubes (Life Technologies DynaMag-2)	ThermoFisher Scientific	12321D	
Mini benchtop centrifuge (Galaxy MinisStar)	VWR	521-2844	
Mixer/Shaker (Eppendorf Thermomixer Comfort)	Eppendorf		
Single molecule array (Simoa) reagents			
SBG, Bead and Detector Barcode Labels	Quanterix	101652	
15 mL Reagent Bottles	Quanterix	102411	
Simoa specimen 96-well plates	Quanterix	101457	
Simoa Discs	Quanterix	100001	
Simoa 2.0 conductive Tips	Quanterix	101726	
Simoa Cuvettes	Quanterix	100803	
Simoa SBG Reagent	Quanterix	102295	
Simoa RGP Reagent	Quanterix	101736	
Simoa System Buffer 1	Quanterix	100486	
Simoa System Buffer 2	Quanterix	100487	
Sealing Oil	Quanterix	100206	

ddH ₂ O			
Simoa HD-1 Analyzer	Quanterix	100032	
Technologies			
Single molecule array (Simoa)	Quanterix		
Single molecule counting Erenna Immunoassay Systems	Singluex		