

Materials List for

# Functional Assessment of Antibody-Secreting B Cells Using ELISpot Assay

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URL: <https://www.jove.com/video/21525>

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## Materials

Name	Company	Catalog Number	Comments
BD Vacutainer K2E	BD Biosciences	367525	10 ml tube
Ficoll-Paque Plus	GE Healthcare	17-1440-02	Endotoxin-free
Trypan blue 0.5% solution	Biological Industries	03-102-1B	
IMag Human B lymphocyte enrichment set	BD Biosciences	558007	
Biotinylated CD27 mAb	Biolegend	302804	Clone O323
Streptavidin magnetic microbeads	BD Biosciences	9000810	
15 ml Falcon tubes	BD Falcon	352196	
Blue nylon mesh cell strainer, 40 µm	BD Falcon	352340	
Anti-human CD19-APC	Biolegend	302212	Clone HIB19
Anti-human CD27-eFluor 450	eBioscience	48-0279-42	Clone O323
Anti-human CD38-PE-Cy7	Biolegend	303516	Clone HIT2
Anti-human CD38-PE-Cy7	BD Biosciences	560677	Clone HIT2
Anti-human CD45-FITC	Biolegend	304006	Clone HI30
Anti-human CD45-FITC	BD Biosciences	555482	Clone HI30
Anti-mouse/rat/human CD27-PerCP Cy5.5	Biolegend	124213	Clone LG.3A10
Anti-human CD27-PerCP Cy5.5	BD Biosciences	65429	Clone L128
Anti-human CD19-FITC	Miltenyi Biotec	130-098-064	Clone LT19
Anti-human CD19-FITC	GeneTex	GTX75599	Clone LT19
Anti-human CD20-FITC	BD Biosciences	555622	Clone 2H7
Biotinylated anti-human CD27	Biolegend	302804	Clone O323
Biotinylated anti-human CD27	eBioscience	13-0279-80	Clone O323
7-aminoactinomycin D (7-AAD)	BD Biosciences	559925	
CpG (ODN 2006)	InvivoGen	tlrl-2006	Type B CpG
Recombinant human IL-2	PeptoTech	200-02	
Recombinant human IL-10	PeptoTech	200-10	
Recombinant human IL-21	PeptoTech	200-21	
Recombinant human sCD40L	PeptoTech	310-02	
Protein A of <i>S. aureus</i> Cowan (SAC)	Sigma-Aldrich	82526	
Pokeweed mitogen (PWM)	Sigma-Aldrich	L9379	
MultiScreen filter plates, 0.45 µm pore size	Merck Millipore	MSIPS4510	Sterile, clear 96-well filter plate with hydrophobic PVDF membrane
BCIP/NBT solution	Sigma-Aldrich	B6404	
BCIP/NBT single reagent, alkaline phosphatase substrate	Merck Millipore	ES006	

Human IgG	Jackson ImmunoResearch	009-000-003	
Human IgG, Fc fragment	Jackson ImmunoResearch	009-000-008	
F(ab') <sub>2</sub> fragment of goat anti-human Ig (IgG+IgM+IgA)	Jackson ImmunoResearch	109-006-127	
Goat anti-human IgG-alkaline phosphatase, Fc $\gamma$ fragment specific	Jackson ImmunoResearch	109-055-008	
Goat anti-human IgM-alkaline phosphatase, Fc $\mu$ fragment specific	Jackson ImmunoResearch	109-055-095	
Goat anti-human IgG-peroxidase, Fc $\gamma$ fragment specific	Jackson ImmunoResearch	109-035-008	
Goat anti-human IgM-peroxidase, Fc $\mu$ fragment specific	Jackson ImmunoResearch	109-035-095	
BD ELISPOT AEC substrate kit	BD Biosciences	551951	
C.T.L. ImmunoSpot analyzer	C.T.L.		