

Materials List for

Simultaneous Isolation of Principal Central Nervous System-Resident Cell Types from Adult Autoimmune Encephalomyelitis Mice

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Materials

Name	Company	Catalog Number	Comments
70 µm cell strainers	Corning, MA, USA	352350	CNS tissue dissociation
ACSA-2 Antibody, anti-mouse, PE-Vio 615 (clone REA-969)	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-116-244	Flow cytometry, store at 4 °C
Adult Brain Dissociation Kit, mouse, and rat	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-107-677	Tissue dissociation, contains debris and red blood cell removal solutions; prepare aliquots of enzyme A and P upon arrival and store them at -20 °C; store the remaining kit at 4 °C
Anti-ACSA-2 MicroBead Kit, mouse	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-097-678	MACS of astrocytes, store at 4 °C
Anti-mouse CD16/32 antibody	BioLegend, London, UK	101301	Flow cytometry, store at 4 °C
Anti-O4 MicroBeads, human, mouse, rat	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-094-543	MACS of oligodendrocytes, store at 4 °C
AstroMACS Separation buffer	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-091-221	MACS of astrocytes, store at 4 °C
Biotin Antibody, PE (clone Bio3-18E7)	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-113-853	Flow cytometry, store at 4 °C
BRAND Neubauer counting chamber	Thermo Fisher Scientific, Waltham, MA, USA	10195580	Cell counting
Brilliant Violet 510 anti-mouse CD45 Antibody (clone 30-F11)	BioLegend, London, UK	103137	Flow cytometry, store at 4 °C
CD11b MicroBeads, human, mouse	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-049-601	MACS of microglia, store at 4 °C
DNAse I, recombinant, Rnase-free	Merck KGaA, Darmstadt, Germany	4716728001	Flow cytometry, store at -20° C
D-PBS with Calcium, Magnesium, Glucose, Pyruvat	Thermo Fisher Scientific, Waltham, MA, USA	14287080	Buffer, store at 4 °C
D-PBS, without calcium, without magnesium	Thermo Fisher Scientific, Waltham, MA, USA	14190250	Buffer, store at 4 °C
eBioscience Fixable Viability Dye eFluor 780	Thermo Fisher Scientific, Waltham, MA, USA	65-0865-14	Flow cytometry, store at 4 °C
eBioscience Foxp3/Transcription factor staining buffer set	Thermo Fisher Scientific, Waltham, MA, USA	00-5523-00	Flow cytometry, store at 4°C
Falcon (15 mL)	Thermo Fisher Scientific, Waltham, MA, USA	11507411	Cell tube
Falcon (50 mL)	Thermo Fisher Scientific, Waltham, MA, USA	10788561	Cell tube

Falcon Round-Bottom Polystyrene Test Tubes with Cell Strainer Snap Cap, 5 mL	Thermo Fisher Scientific,Waltham, MA, USA	08-771-23	Flow cytometry
FcR Blocking Reagent, mouse	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-092-575	MACS of oligodendrocytes, store at 4 °C
Female C57BL/6J mice	Charles River Laboratories, Sulzfeld, Germany		Active EAE induction
Fetal calf serum (FCS)	Merck KGaA, Darmstadt, Germany	F2442-50ML	Flow cytometry, store at -5 to -20 °C
FITC Rat Anti-CD 11b (clone M1/70)	BD Biosciences, San Jose, CA, USA	553310	Flow cytometry, store at 4 °C
Freund's Complete adjuvant	Merck KGaA, Darmstadt, Germany	AR001	Active EAE induction, store at 4 °C
GentleMACS C Tubes	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-093-237	CNS tissue dissociation
GentleMACS Octo Dissociator with Heaters	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-096-427	CNS tissue dissociation
Graphpad Prism 8.4.3	Graphpad by Dotmatics		Graphical Analysis
Isoflurane	AbbVie, North Chicago, IL, USA		Active EAE induction, store at 4 °C
Kaluza Analysis Software V2.1.1	Beckman Coulter, Indianapolis, IN, USA		Flow cytometry analysis
LS Columns	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-042-401	MACS
MACS BSA Stock Solution	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-091-376	PB-buffer
MACS MultiStand	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-042-303	MACS
MOG ₃₅₋₅₅ peptide	Charité, Berlin, Germany; alternatives: Genosphere Biotechnologies (Paris, France) or sb-Peptide (Saint Egrève, France)		Active EAE induction, store at -20 °C
Mycobacterium tuberculosis strain H37 Ra	Becton, Dickinson and Company (BD),Franklin Lakes, NJ, USA		Active EAE induction, store at 4 °C
Neuron Isolation Kit, mouse	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-115-390	MACS of neurons, store at 4 °C
O4 Antibody, anti-human/mouse/ rat, APC, (clone REA-576)	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-119-897	Flow cytometry, store at 4 °C
Pertussis toxin in glycerol	Hooke Laboratories Inc., Lawrence, MA, USA	BT-0105	Active EAE induction; store at -20 °C
pluriStrainer Mini 100 µm	pluriSelect Life Science UG, Leipzig, Sachsen, Germany	43-10100-40	Flow cytometry
QuadroMACS Separator	Miltenyi Biotec, Bergisch Gladbach, NRW, Germany	130-090-976	MACS
Recombinant Alexa Fluor 647 Anti-NeuN antibody (clone EPR12763)	Abcam, Cambridge, UK	EPR12763	Flow cytometry, store at -20 °C
Stainless Steel Brain Matrices, 1 mm	Ted Pella, Redding, CA, USA	15067	CNS tissue dissection
Trypan blue solution, 0.4%	Thermo Fisher Scientific,Waltham, MA, USA	15250061	Cell counting
UltraPure 0.5 M EDTA, pH 8.0	Thermo Fisher Scientific,Waltham, MA, USA	15575020	Flow cytometry, store at room temperature