

Materials List for:**Development and Functional Characterization of Murine Tolerogenic Dendritic Cells**Hsi-Ju Wei¹, John J. Letterio^{2,3}, Tej K. Pareek^{2,3}¹Department of Biochemistry, School of Medicine, Case Western Reserve University²Department of Pediatrics, Division of Pediatric Hematology/Oncology, Case Western Reserve University³Angie Fowler Cancer Institute, Rainbow Babies & Children's Hospital, University Hospitals, ClevelandCorrespondence to: Tej K. Pareek at tkp5@case.eduURL: <https://www.jove.com/video/57637>DOI: [doi:10.3791/57637](https://doi.org/10.3791/57637)**Materials**

Name	Company	Catalog Number	Comments
CDDO-DFPA (RTA-408)	Reata Pharmaceuticals	in house synthesis	Cell culture
Mouse GM-CSF	Peprotech Inc.	315-03	BMDC differentiation
Mouse IL-4	Peprotech Inc.	214-14	BMDC differentiation
Lipopolysaccharides (LPS)	Sigma Aldrich Inc.	L2880	Cell culture
β-mercaptoethanol	Sigma Aldrich Inc.	516732	Cell culture
Pertussis toxin (PTX)	R&D systems	3097	EAE induction
MOG (35–55) peptide	21stCentury Biochemicals	in house synthesis	EAE induction
Trypan blue	Gibco, Life Technologies	15250-061	Cell culture
RPMI-1640 plus L-glutamine	ThermoFisher Scientific	11875-093	Cell culture
Non-essential amino acid (100X)	ThermoFisher Scientific	11140050	Cell culture
HEPES	ThermoFisher Scientific	15630080	Cell culture
penicillin/streptomycin	ThermoFisher Scientific	15140122	Cell culture
40 µm cell strainer	Corning	352340	Cell isolation
PE-conjugated CD80	BD Biosciences	557227	Flow cytometry
PE-conjugated CD86	BD Biosciences	555665	Flow cytometry
PE-conjugated PD-L1	BioLegend	124307	Flow cytometry
APC-conjugated MHCII	Miltenyi Biotec Inc.	130-112-388	Flow cytometry
APC-conjugated CD11c	BD Biosciences	340544	Flow cytometry
Isotype matched PE	Miltenyi Biotec Inc.	130-091-835	Flow cytometry
Isotype matched APC	Miltenyi Biotec Inc.	130-091-836	Flow cytometry
CFSE	BioLegend	423801	T cell proliferation assay
Pan dendritic cell isolation kit	Miltenyi Biotec Inc.	130-100-875	T cell proliferation assay
FcR Blocking Reagent	Miltenyi Biotec Inc.	130-100-875	T cell proliferation assay
Pan Dendritic Cell Biotin-Antibody Cocktail	Miltenyi Biotec Inc.	130-100-875	T cell proliferation assay
Anti-Biotin MicroBeads	Miltenyi Biotec Inc.	130-100-875	T cell proliferation assay
CD4+ T cell isolation kit	Miltenyi Biotec Inc.	130-104-454	T cell proliferation assay
CD4+ T cell Biotin-Antibody Cocktail	Miltenyi Biotec Inc.	130-104-454	T cell proliferation assay
Anti-Biotin MicroBeads	Miltenyi Biotec Inc.	130-104-454	T cell proliferation assay
ACK lysing buffer	ThermoFisher Scientific	A1049201	BMDC differentiation
1 ml syringe	BD Biosciences	309626	T cell proliferation assay
3 ml syringe	BD Biosciences	309588	BMDC differentiation

25G needle	BD Biosciences	309626	T cell proliferation assay
23G needle	BD Biosciences	309588	BMDC differentiation
BSA	Sigma Aldrich Inc.	A2058	T cell proliferation assay
EDTA	ThermoFisher Scientific	15575020	T cell proliferation assay
LS Column	Miltenyi Biotec Inc.	130-042-401	T cell proliferation assay
Pre-Separation Filter	Miltenyi Biotec Inc.	130-095-823	T cell proliferation assay
collagenase D	Sigma Aldrich Inc.	11088858001	T cell proliferation assay
HBSS	ThermoFisher Scientific	14025076	T cell proliferation assay
ovalbumin (OVA) peptide 323–329	Sigma Aldrich Inc.	O1641	T cell proliferation assay
Mouse IFN-γ TaqMan probe	ThermoFisher Scientific	Mm01168134_m1	qRT-PCR
Mouse IL-12a TaqMan probe	ThermoFisher Scientific	Mm00434165	qRT-PCR
Mouse IL-12 p70 DuoSet ELISA	R&D systems	DY419-05	ELISA
Mouse EDN-1 ELISA	RayBiotech	ELM-EDN1-1	ELISA
TNF-α TaqMan probe	ThermoFisher Scientific	Mm00443258	qRT-PCR
Mouse TNF-α Quantikine ELISA Kit	R&D systems	MTA00B	ELISA
IL-6 TaqMan probe	ThermoFisher Scientific	Mm00446190	qRT-PCR
Mouse IL-6 Quantikine ELISA Kit	R&D systems	M6000B	ELISA
IL-23a TaqMan probe	ThermoFisher Scientific	Mm01160011	qRT-PCR
Mouse IL-23 DuoSet ELISA	R&D systems	DY1887-05	ELISA
IL-4 TaqMan probe	ThermoFisher Scientific	Mm99999154_m1	qRT-PCR
IL-10 TaqMan probe	ThermoFisher Scientific	Mm01288386_m1	qRT-PCR
TGF-β TaqMan probe	ThermoFisher Scientific	Mm01178820_m1	qRT-PCR
Anti-Heme Oxygenase 1 antibody	Abcam	ab13248	Western blotting
Anti-β-actin antibody	Abcam	ab8226	Western blotting
CFX96 Touch Real-Time PCR Detection System	Bio-Rad Inc.		qRT-PCR
BD FACSCalibur Cell Analyzer	BD Biosciences		Flow cytometry