

**Table S1. List of reagents, antibodies and primers****1.1. Reagents.**

<b>Product Name</b>	<b>Supplier</b>	<b>Catalog no.</b>
<b>EasySep™ Mouse CD4+ T Cell Isolation Kit</b>	STEMCELL Technologies, Vancouver, Canada	19852
<b>EasySep™ Mouse Naïve CD4+ T Cell Isolation Kit</b>	STEMCELL Technologies, Vancouver, Canada	19765
<b>Intracellular Fixation and Permeabilization Buffer + Brefeldin A</b>	eBioscience, San Diego, CA, USA	88-8823-88
<b>H<sub>2</sub>O<sub>2</sub> 30%</b>	Sigma Aldrich, St. Louis, MO, USA	H-1009
<b>Bovine Serum Albumine (BSA)</b>	Santa Cruz Biotechnologies	sc-2323
<b>L-Lysine monohydrochloride</b>	Sigma Aldrich, St. Louis, MO, USA	L5626-500G
<b>Endogenous Avidin + Biotin blocking solution</b>	abcam, Cambridge, United Kingdom	ab64212
<b>Vectastain ABC-HRP kit, Peroxidase (Standard)</b>	Vector Laboratories, Burlingame, CA, USA	PK-4000
<b>DAB peroxidase substrate kit</b>	Vector Laboratories, Burlingame, CA, USA	SK-4100
<b>Eukitt® mounting medium</b>	Panreac, Barcelona, Spain	253681
<b>Biocoll Separating Solution</b>	Merck, Kenilworth, New Jersey, USA	L6115
<b>EasySep™ Human CD4+ T cell isolation kit</b>	STEMCELL Technologies, Vancouver, USA	17952
<b>Advanced RPMI 1640 medium</b>	Life Technologies, Carlsbad, CA, USA	12633020
<b>IMDM medium with L-Glutamin (4mM)</b>	Life Technologies, Carlsbad, CA, USA	21980032
<b>Fetal Bovine Serum, heat inactivated</b>	Life Technologies, Carlsbad, CA, USA	10082-147
<b>L-Glutamine (200 mM)</b>	Life Technologies, Carlsbad, CA, USA	25030-024
<b>Penicillin-Streptomycin (10000 U/mL)</b>	Life Technologies, Carlsbad, CA, USA	15140-122
<b>IL17A mouse uncoated ELISA Ready-Set-Go kit</b>	Life Technologies, Carlsbad, CA, USA	88-7371-88
<b>IL10 mouse uncoated ELISA Ready-Set-Go kit</b>	Life Technologies, Carlsbad, CA, USA	88-7105-77
<b>IL4 mouse uncoated ELISA Ready-Set-Go kit</b>	Life Technologies, Carlsbad, CA, USA	88-7044-88
<b>IFNγ mouse uncoated ELISA Ready-Set-Go kit</b>	Life Technologies, Carlsbad, CA, USA	88-7314-88
<b>Recombinant mouse IL-12p70 protein</b>	Peprotech, Rocky Hill, NJ, USA	AF-210-12
<b>Recombinant mouse IL-2 protein</b>	Peprotech, Rocky Hill, NJ, USA	AF-212-12
<b>Recombinant mouse IL-6 protein</b>	Peprotech, Rocky Hill, NJ, USA	AF-216-16
<b>Recombinant human TGF-β protein</b>	Peprotech, Rocky Hill, NJ, USA	AF-100-21
<b>Recombinant mouse IL-4 protein</b>	R&D Systems, Minneapolis, USA	404-ML-010

<b>RNeasy Mini kit</b>	Qiagen, Hilden, Germany	74106
<b>qScript One-step RT-qPCR kit</b>	QuantaBio, Beverly, USA	QUNT95086-200
<b>RNAlater</b>	Qiagen, Hilden, Germany	76106
<b>Protease inhibitor cocktail</b>	Sigma Aldrich, St. Louis, MO, USA	P8340
<b>LDS sample buffer (4X) NuPAGE</b>	Thermo Fisher Scientific, Waltham, USA	NP0008
<b><math>\beta</math>-2mercaptoethanol</b>	Thermo Fisher Scientific, Waltham, USA	31350010
<b>NuPAGE 4-12% Bis-Tris, 1.0 mm Mini Protein Gel, 10-wells</b>	Thermo Fisher Scientific, Waltham, USA	NW04122BOX
<b>Immunoblot PVDF membranes</b>	BioRad, Hercules, CA, USA	1620177
<b>Tween 20</b>	Merck, Kenilworth, New Jersey, USA	P9416
<b>Supersignal West Femto Chemi</b>	Thermo Fisher Scientific, Waltham, USA	W6421N
<b>Supersignal West Pico Chemi</b>	Thermo Fisher Scientific, Waltham, USA	34080
<b>CFSE</b>	Labclinics, Barcelona, Spain	65-0850--84
<b>CellTrace Far Red Cell Proliferation Kit</b>	Thermo Fisher Scientific, Waltham, USA	C34564
<b>Annexin V</b>	Labclinics, Barcelona, Spain	88-8102-72
<b>7-AAD Viability Staining Solution</b>	Labclinics, Barcelona, Spain	00-6993-50
<b>Formalin Solution Neutral Buffered, 10%</b>	Sigma Aldrich, St. Louis, MO, USA	HT501128
<b>GemCut Paraffin, 56-58°C</b>	Polysciences, Warrington, PA, USA	24361-1
<b>Harris Haematoxylin</b>	Leica Biosystems, Wetzlar, Germany	3801561
<b>Eosin-Phloxin</b>	DiaPath, Martinengo, Italy	C0343
<b>Dynabeads™ Mouse T-Activator CD3/CD28 for T-Cell Expansion and Activation</b>	Life Technologies, Carlsbad, CA, USA	11456D
<b>Qubit RNA HS Assay Kit</b>	Thermo Fisher Scientific, Waltham, USA	Q32855
<b>Agilent RNA 6000 Nano Chips</b>	Agilent Technologies	5067-1511
<b>TruSeq Stranded mRNA Library Prep Kit set A</b>	Illumina	RS-122-2101
<b>TruSeq Stranded mRNA Library Prep Kit set B</b>	Illumina	RS-122-2102
<b>DNA-free DNA removal kit</b>	Thermo Fisher Scientific, Waltham, USA	AM1906

## 1.2. Antibodies.

Name	Supplier	Catalog no.	Clone no.
<b>Anti mouse CD3 antibody,</b>	eBioscience – ThermoFisher	16-0031-86	17A2

<b>functional grade purified</b>	Scientific, Waltham, MA, USA		
<b>Anti mouse CD28 antibody, functional grade purified</b>	eBioscience – ThermoFisher Scientific, Waltham, MA, USA	16-0281-82	37.51
<b>IL-12 p35 Rat anti-Mouse</b>	Ivitrogen – ThermoFisher Scientific, Waltham, MA, USA	14-7122-285	C18.2
<b>IL-4 Rat anti-Mouse</b>	Ivitrogen – ThermoFisher Scientific, Waltham, MA, USA	16-7041-85	11B11
<b>Anti-FOXP3 Monoclonal Antibody</b>	eBioscience – ThermoFisher Scientific, Waltham, MA, USA	14-5773-82	FJK-16s
<b>Biotinylated goat anti-Rat IgG</b>	Vector Laboratories, Burlingame, CA, USA	BA-9400	Polyclonal
<b>In Vivo mAb Anti-mouse IL4 antibody</b>	BioxCel, Lebanon, NH, USA	BE0045	11B11
<b>In Vivo mAb Anti-mouse IFNg antibody</b>	BioxCel, Lebanon, NH, USA	BE0055	XMG1.2
<b>IL17 antibody, anti-mouse, FITC</b>	Milteny Biotec, Bergisch Gladbach, Germany	130-102-262	TC11-18H10
<b>IFNg antibody, anti-mouse, APC</b>	Milteny Biotec, Bergisch Gladbach, Germany	130-109-723	REA638
<b>FOXP3 antibody, anti-mouse, PE</b>	Milteny Biotec, Bergisch Gladbach, Germany	130-111-678	REA788
<b>AIM2 Polyclonal Antibody</b>	eBioscience – ThermoFisher Scientific, Waltham, MA, USA	14-6008-93	n/a
<b>Goat anti-Rabbit IgG, Secondary Antibody, Alexa Fluor 647</b>	Ivitrogen – ThermoFisher Scientific, Waltham, MA, USA	A21244	n/a
<b>Rat IgG1 isotype control antibody</b>	Milteny Biotec, Bergisch Gladbach, Germany	130-102-644	ES26-14D1.11
<b>REA control antibody, APC</b>	Milteny Biotec, Bergisch Gladbach, Germany	130-104-630	n/a
<b>REA control antibody, PE</b>	Milteny Biotec, Bergisch Gladbach, Germany	130-104-628	n/a
<b>AIM2 (D-14) antibody</b>	Santa Cruz Biotechnologies, Dallas, Texas, USA	sc-137967	Polyclonal
<b>Anti-Rabbit IgG HRP secondary antibody</b>	Jackson ImmunoResearch, West Grove, PA, USA	111-035-003	Polyclonal
<b>ASC (N-15) antibody</b>	Santa Cruz Biotechnologies, Dallas, Texas, USA	sc-22514-R	Polyclonal
<b>CASP-1 14F468 antibody</b>	Santa Cruz Biotechnologies, Dallas, Texas, USA	sc-56036	14F468
<b><math>\beta</math>-actin antibody</b>	Merck, Kenilworth, New Jersey, USA	A1978	AC-15
<b>Anti-Mouse IgG HRP secondary antibody</b>	Jackson ImmunoResearch, West Grove, PA, USA	115-035-003	Polyclonal

1.3. Primers. All primers were purchased from Integrated DNA Technologies (Coralville, IA, USA).

Name	Sequence
<b>Aim2 forward primer for qPCR</b>	5'-TGGCCACGGAGACAGATTTT-3'
<b>Aim2 reverse primer for qPCR</b>	5'-GGAAGTGGTGACCTCCATGA-3'
<b>Nlrp3 forward primer for qPCR</b>	5'-CCGTCTACGTCTTCTTCCTTTC -3'
<b>Nlrp3 reverse primer for qPCR</b>	5'-CGCAGATCACACTCCTCAAATA -3'
<b>Casp1 forward primer for qPCR</b>	5'-TACACGTCTTGCCCTCATTATC-3'
<b>Casp1 reverse primer for qPCR</b>	5'-CTCCAGCAGCAACTTCATTTC-3'
<b>Gapdh forward primer for qPCR</b>	5'-CTTTGGCATTGTGGAAGGGC-3'
<b>Gapdh reverse primer for qPCR</b>	5'-CAGGGATGATGTTCTGGGCA-3'