

**Supplementary Table 2. CyTOF immunophenotyping antibody panel for validation experiment.**

<b>Label</b>	<b>Target</b>	<b>Clone</b>	<b>Conjugation</b>	<b>Source</b>
<sup>89</sup> Y	CD45	30-F11	Pre-conjugated	Fluidigm
<sup>139</sup> La	CD27	LG.3A10	Maxpar kit	BioLegend
<sup>143</sup> Nd	CD86 (B7-2)	GL1	Maxpar kit	BioLegend
<sup>146</sup> Nd	F4/80	BM8	Pre-conjugated	Fluidigm
<sup>147</sup> Sm	CD80 (B7-1)	16-10A1	Maxpar kit	BioLegend
<sup>148</sup> Nd	CD11b	M1/70	Pre-conjugated	Fluidigm
<sup>150</sup> Nd	Ly6C	HK1.4	Pre-conjugated	Fluidigm
<sup>151</sup> Eu	Ly6G	1A8	Pre-conjugated	Fluidigm
<sup>152</sup> Sm	CD3e	145-2C11	Pre-conjugated	Fluidigm
<sup>153</sup> Eu	CD335 (NKp46)	29A1.4	Pre-conjugated	Fluidigm
<sup>154</sup> Sm	CD152 (CTLA-4)	UC10-4B9	Pre-conjugated	Fluidigm
<sup>155</sup> Gd	CD25	3C7	Maxpar kit	BioLegend
<sup>156</sup> Gd	CD4	RM4-5	Maxpar kit	BioLegend
<sup>159</sup> Tb	CD279 (PD-1)	29F.1A12	Maxpar kit	BioLegend
<sup>166</sup> Er	CD19	6D5	Pre-conjugated	Fluidigm
<sup>168</sup> Er	CD8a	53-6.7	Pre-conjugated	Fluidigm
<sup>169</sup> Tm	CD274 (PD-L1)	10F.9G2	Maxpar kit	BioLegend
<sup>176</sup> Yb	CD45R (B220)	RA3-6B2	Pre-conjugated	Fluidigm
<sup>209</sup> Bi	CD11c	N418	Pre-conjugated	Fluidigm