

Fig EV1 A - Spleen			
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Cellularity	7625000	6900000	
	10267500	8675000	
	5900000	3475000	
	3600000	4400000	
CD4 numbers	4370000	4037000	
	3825000	4362500	
	1725000	3512500	
	3875000	4062500	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 numbers	17710750	9753478	
	10450444	5303823	
	1476500	5996600	
	6601437.5	4562481.75	
CD8 numbers	5703407.5	5553686.625	
	3211884.75	3862207	
	5369506.25	4500803.125	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD8 numbers	6142543	6186427	
	9665280	6197112	
	5583604	3621645	
	3705336	4282256	
CD4 numbers	3623602.5	3434232.9	
	4056902.25	4023621	
	2123820	1973036.125	
	2077263.5	2500390	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 CD4exp	22.4	37.7	
	32.4	45.1	
	27.3	32.8	
	26.5	34.9	
CD8 CD4exp	33.1	34.4	
	30.6	38.8	
		33.1	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD8 CD4exp	42.8	59.9	
	33.3	58.2	
	48	62.7	
	39.7	69.3	
Treg numbers	29	29	
	27.9	56.2	
	35.7	67.8	
	46.1	67.1	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Treg numbers	2300461	1774268	
	2514926	1570310	
	1483132	850619	
	1091540	820612	
Treg freq	1042912.5	898224	
	794414.25	1131807	
	442521.5	715074.75	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Treg freq	13.3	16.1	
	14.2	16.1	
	14.6	14.8	
	13.7	16.8	
	12.9	18.4	
	12.7	17.4	

Fig EV1 B - LNs			
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Cellularity	5437500	3162500	
	4812500	3337500	
	5137500	2075000	
	2812500	1637500	
CD4 numbers	2137500	1975000	
	1800000	1400000	
	2087500	2175000	
		2412500	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 numbers	2521847	1199125	
	2346387	1156003	
	2512484	769840	
	1248760	491250	
CD8 numbers	780187.5	673475	
	729600	449400	
	843300	866950	
		860212.5	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD8 numbers	1889803	1513525	
	1432200	1172424	
	1545796	6005058	
	791100	496203.4	
CD4 numbers	661428	591014.8	
	586074	36546	
	411803.2125	456869.55	
		622286.9625	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 CD4exp	9.9	10.2	
	10.2	10.9	
	10.3	11.5	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD8 CD4exp	31.9	50.6	
	23.5	55.3	
	37.6	58	
	29	64.6	
CD8 numbers	25.6	58.9	
	26.1	58.2	
	28.8	58.6	
	41.2	66.5	

Fig EV1 C - Thymus			
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Cellularity	8050000	7700000	
	7712500	8175000	
	8550000	14375000	
	10762500	16125000	
CD4 numbers	11425000	17125000	
	5050000	16625000	
	6912500	5470000	
	8487500	101125000	
CD8 numbers	6282500	7300000	
	5900000	7400000	
	6087500	1749420	
	5562500	1386725	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 numbers	1288000	1031800	
	987200	1843075	
	176880	2458125	
	2163263	2534790	
CD8 numbers	1819400	2684125	
	1060800	2743125	
	1859463	1207375	
	2851800	3468588	
CD4 numbers	1569683	2607700	
	1266500	2352000	
		1375775	
		1051313	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 numbers	7116200	6883000	
	68487000	76565125	
	82703000	102843750	
	93633750	142061250	
CD8 numbers	99283250	151213750	
	44137000	164646075	
	60968250	49713000	
	73077375	89778000	
CD4 numbers	82546500	84240000	
	66156000	12488676	
	52097000	69882250	
		907642	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 numbers	3336000	2266480	
	5429440	1629520	
	5114850	3024000	
	4405451	2891480	
CD8 numbers	4518834	4400700	
	3177056	1228920	
	3471644	2039788	
	4266172	3234965	
CD4 numbers	3190682	2500900	
	3351194	2466198	
		1865325	
		2314723	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD8 numbers	1079380	324796	
	977867	671062	
	1584192	791516	
	1514254	1134136	
CD8 numbers	1523236	1324722	
	825236	900161	
	600946	230241	
	941773	363413	
CD8 numbers	686533	312732	
	714605	252414	
		224809	
		285358	

Fig EV1 D - Traps			
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Treg number	15.1	26.6	
	74501	1618270	
	862674	977421	
	1118003	2070470	
Treg freq	1080361	1245408	
	805389	1098661	
	5050000	1661380	
	2395120	1461380	
Treg freq	208084	1554525	
	1622800	2725200	
	1214010	2439747	
	1401680	1749420	
Treg freq	1117783	1386725	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Treg freq	15.1	26.6	
	13.4	22.1	
	14.3	19.8	
	11.8	18.7	
Treg freq	10.6	20.4	
	15.3	23	
	14.6	22.5	
	14.5	21.2	
Treg freq	13.7	21.8	
	11.5	13	
		14.6	
		11.9	

Fig EV1 E - LNs			
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Cellularity	362500	490000	
	1581250	1581250	
	3818750	3818750	
	4537500	1625000	
CD4 numbers	4952500	1618750	
	4887500	1686250	
	4037500	4237500	
	6950000	4912500	
CD8 numbers	4500000	2500000	
	4237500	4237500	
	2087500	2387500	
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 numbers	354963	113011	
	1743916	420386	
	1699624	1037173	
	1707325	414255	
CD8 numbers	1810281	448018	
	397007		
	819496		
	2821510	1160138	
CD4 numbers	739670		
	1251863		
	555409		
	655553		
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD8 numbers	1527540	622560	
	1577763	1577763	
	1642487	679494	
	1621558	493144	
CD4 numbers	2004750	612585	
	1458515	1730790	
	1480162		
	945960		
CD8 numbers	12488676		
	69882250		
	907642		
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD4 CD4exp	19	37	
	14.9	33	
	15.2	31.8	
	16.2	25.9	
CD8 CD4exp	14.8	30.8	
	11.8	29.8	
	10.3	26.6	
	13.6	25.8	
CD8 numbers	25.7		
	27.2		
	28.7		
	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
CD8 CD4exp	36.3	73.4	
	24.4	67.8	
	33.1	73.3	
	40.7	67	
CD8 numbers	28.5	69.9	
	37.5	72.8	
	28.9	70.6	
	25.1	67	
CD8 numbers	32.8	59.7	
	60.2		
	81.4		
	80.6		

Fig EV1 F - Survival CD4cre Ptpn6 <sup>fl/fl</sup>			
Days	Ptpn6 <sup>fl/fl</sup>	CD4cre Ptpn6 <sup>fl/fl</sup>	
Days	11	12	
	12	12	
	12	12	
	12	12	
Days	13	1	
	13	1	
	13	1	
	13	1	
Days	14	1	
	14	1	
	14	1	
	14	1	
Days	15	1	
	15	1	
	15	1	
	15	1	
Days	16	1	
	16	1	
	16	1	
	16	1	
Days	17	1	
	17	1	
	17	1	
	17	1	
Days	18	1	
	18	1	
	18	1	
	18	1	
Days	19	1	
	19	1	
	19	1	
	19	1	
Days	20	1	
	20	1	
	20	1	
	20	1	
Days	21	1	
	21	1	
	21	1	
	21	1	

Fig EV1 G - PDI exp TILs			
		CD4cre Ptpn6/11 <sup>+/wt</sup> Iso	CD4cre Ptpn6/11 <sup>Utr</sup> Iso
CD8+ PD-1+		37.9	17.9
		43.8	25.2
		44.3	56.4
		43.7	29.4
		52.1	39.3
		21.7	38.3
		44.4	34.7
		42.3	48.3
		21.7	41
		39	35.2
CD8+ PD-1-		40	55
		74.4	25.4
		55.3	39.8
		45.2	19.4