

NATURAL AND ADAPTIVE REGULATORY CELLS



<i>Type</i>	<i>Natural</i>		<i>Adaptive (induced)</i>		
<i>Designation</i>	nBreg	nTreg	pTreg	Th3	Tr1
<i>Name</i>	Natural regulatory B cell	Natural regulatory T cell	Antigen-specific peripheral regulatory T cell	Type 3 helper T cell	Type 1 regulatory T cell
<i>Phenotype</i>	CD19 ⁺ , CD24 ^{hi} , CD38 ^{hi} , PD-L1 ⁺	CD4 ⁺ /CD8 ⁺ , CD25 ^{hi} , FoxP3 ^{lo} , CTLA-4 ⁺	CD4 ⁺ , CD25 ^{hi} , FoxP3 ^{hi} , CTLA-4 ⁺	CD4 ⁺ , CD25 ⁺ , FoxP3 ^{lo} , LAP-3	CD4 ⁺ , CD25 ^{lo} , FoxP3 ^{lo} , LAG-3
<i>Cytokine profile</i>	IL-10 , TGF- β , IL-1ra	TGF- β , IL-10, IL-35	IL-10, TGF-β, IL-35	TGF-β , IL-10, IL-35	IL-10 , TGF- β , IL-35
<i>Target cells</i>	Effector cells	Self-antigen-presenting and recognizing cells (in the thymus)	Antigen-presenting and effector T cells	Th1, Th2, effector T cells	Th1, Th2, effector T cells, myeloid cells
<i>Functional activity</i>	Natural immunosuppression, tolerance	Natural immunosuppression, tolerance in the thymus	Main cell in immune tolerance and allergen tolerance	Tolerance at mucosal sites	Tolerance at mucosal sites, apoptosis of the myeloid cells
<i>Cooperation</i>	pTreg, nTreg	pTreg, nBreg	nTreg, Th3, Tr1	pTreg, Tr1	pTreg, Th3