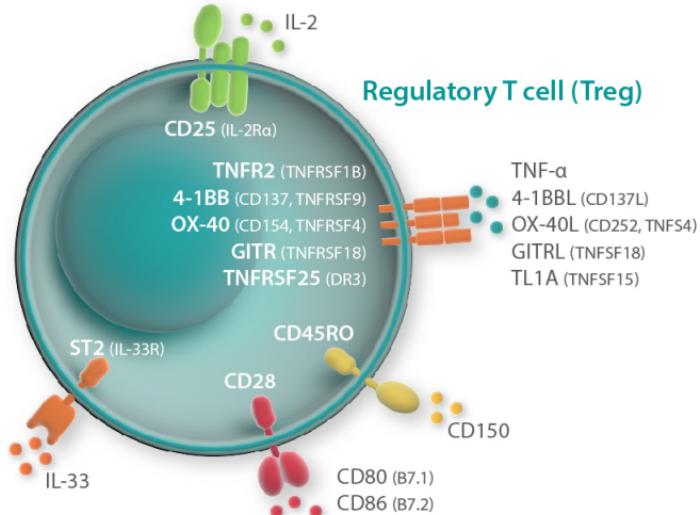


# The use of regulatory T cells as therapeutic strategy in transplantation and autoimmune diseases



- IL-2 signaling is crucial for Treg homeostasis
- Other Treg cell surface proteins induce activation and proliferation of this population

Administration of IL-2, either alone or in combination, has been tested to ameliorate graft-versus-host disease (GVHD)

Donor mouse



Days

-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9



Recipient mouse



Bone marrow transplant

OR



Treg levels	GVHD
IL-2 + dexamethasone	elevated
IL-2/anti-IL-2 + TL1A-Ig	diminished
recombinant IL-2 (rIL-2)	no effect

Treg levels	GVHD
IL-2/anti-IL-2	elevated
rIL-2	elevated
IL-2 + sirolimus	diminished