Regulation and activation of T lymphocytes depend on signaling by the T cell receptor (TCR) and also by cosignaling receptors that deliver negative (→) or positive (←) signals.

**APC / Tumor cell / Dendritic cell**
- PD-L1 [B7-H1; CD274] or PD-L2 [B7-DC; CD273]
- CD80 [B7-1] or CD86 [B7-2]
- ICOSL [B7-H2; B7RP1; CD275]
- B7-H3 [CD276] / B7-H4 [VTCN1]
- VISTA [B7-H5; PD-1H; GI24]
- B7-H7 [HHLA2]
- Butyrophilin Family Members (e.g. Btnl2, Skint1, MÖG, CD277)
- HVEM [TNFRSF14; CD270]

**T cell**
- CD28
- CTLA-4 [CD152]
- ICOS [CD278]
- B7-H3 [CD276] / B7-H4 [VTCN1]
- B7-H7 [HHLA2]
- VISTA [TNFRSF18; CD357]
- CD96
- CD226 [DNAM-1]
- CD48 [BCM-1; BLAST-1]

**Cytokines**
- TGFβ, IL-1, IL-6, IL-10, IL-12, IL-18

**Peptide**
- MHC class I or II

**SIGNAL**
- CD40L [TNFSF5; CD154]
- GITR [TNFRSF18; CD357]
- CD112R
- CD200R
- 2B4 [CD244]
- TIM-3 [HAVcr-2]
- A2aR

**REVIEWS**
- Immune checkpoint blockade immunotherapy to activate antitumour T cell immunity: A.G. Ramsay; Br. J. Haematol. 162, 313 (2013)