

The invention provides antibodies that specifically bind to human CD134. Anti-human CD134 antibodies specifically bind to the extracellular domain of human CD134, including non-OX40 ligand (OX40L) binding domains on human CD134, which is expressed on e.g. activated human conventional effector CD4 and/or CD8 T lymphocytes (Teffs) and on activated human sup-pressive regulatory CD4 T lymphocytes (Tregs). Humanized anti-human CD134 antibodies are useful (e.g. to empower Teffs anti-cancer effector function and/or to inhibit Tregs suppressive function) for cancer treatment.