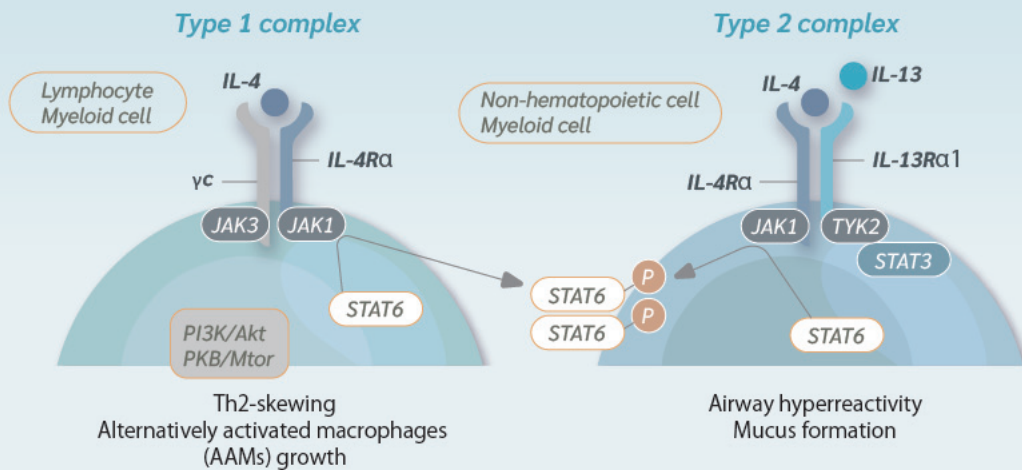


A FACILITATOR: IL-4 IMPROVES THE APPLICATION OF B LYMPHOCYTES IN CLINICAL

How does IL-4 signaling work?

The IL-4R dimerized either with the common gamma chain (γ c) to generate the type-1 signaling complex, which is mostly seen on hematopoietic cells and specifically binds IL-4, or with the IL-13 receptor alpha 1 (IL-13R α 1) to generate the type-2 complex, which is also present on non-hematopoietic cells.



How does IL-4 be used in cell therapy?

B Cell-Based Cancer Immunotherapy

Patients who have undergone allogeneic stem cell transplantation (alloSCT) have both a T- and a B-lymphocyte-related immunological deficit that lasts for a long time. The researchers therefore developed the idea of adoptively transferring memory B cells to improve B-cell immune reconstitution. Several studies have shown that the specific B cell culture conditions lead to about 20 times higher expansion ability and antigen-presenting functions.

