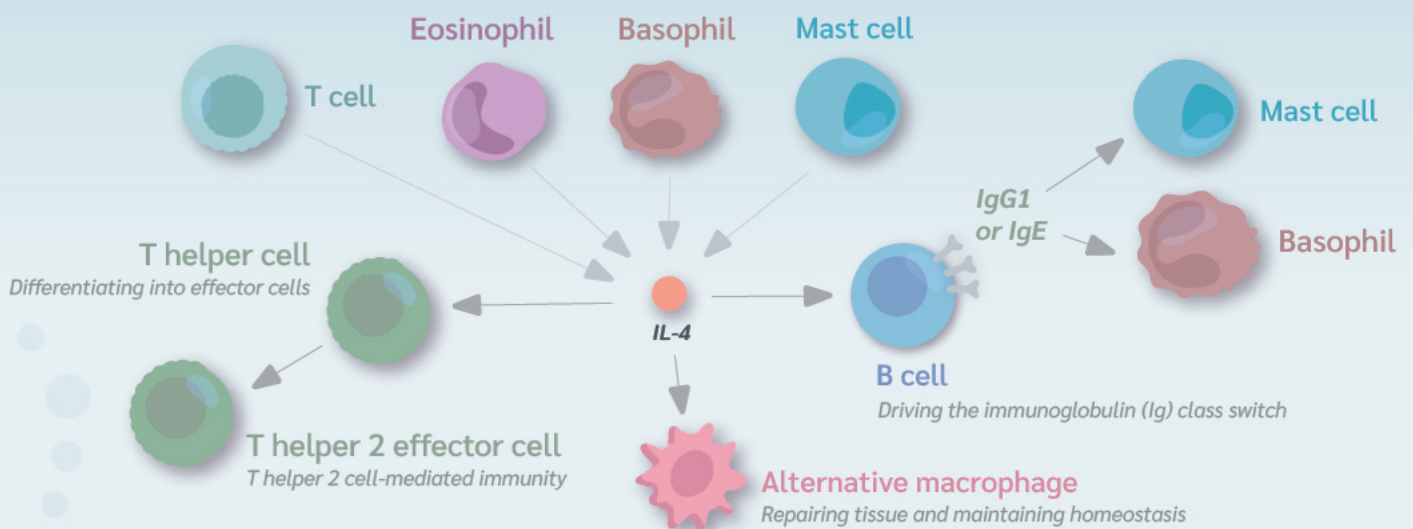


# A FACILITATOR: IL-4 IMPROVES THE APPLICATION OF T LYMPHOCYTES IN CLINICAL

## What's the ability of IL-4?

IL-4 plays a crucial role in regulating both humoral and adaptive immunity. Multiple cells are profoundly impacted by IL-4 from development through activation, even though only a small proportion can manufacture it.



## How does the IL-4 be used in cell therapy?

Previous research has demonstrated that the IL-4/STAT6 signaling pathway, which confers resistance to apoptosis and immune surveillance, is closely associated to the growth of tumors. However, other processes suggest that IL-4 may be a therapeutic target by promoting and diverting T and B cell activity.

### Reprogrammed T cells

In the recent animal model study, the researchers found that IL-4 can transform IL-17-producing CD8+ T cells (Tc17) into cytotoxic IFN- $\gamma$ -producing IECs via PI3K/AKT signaling pathway, which has the potential to be a treatment for eliciting anti-tumor responses.

