



# Mouse T Regulatory Cell Polarizing Protein Bundle

Catalog Number: PB-500-10

## Protein Bundle Includes:

Mouse IL-2 (Catalog 200-17)	100 ug vial
Human TGF-beta 1 (Catalog 100-39)	5 ug vial

## Bundle Description:

T regulatory cells (Tregs) are a subset of T cells that suppress immune function. They are characterized by the expression of CD4, CD25 and Foxp3 and are known to produce immunosuppressive cytokines TGF-beta 1 and IL-10. Tregs can be cultured from naive CD4+ T cells by culturing them in the presence of IL-2 (at 50-100 U/mL) and TGF-beta 1 (at 5 ng/mL) with CD3 and CD28 stimulation. In some cases cells are also cultured with neutralizing antibodies to IL-4, IFN $\gamma$  and IL-12 and/or retinoic acid.

**Notes:** Dependent on user formulation, there is approximately enough IL-2 and TGF-beta 1 to make 1 L of differentiation media. Specific concentrations of each chemokine are determined by the end user based on their application and culture conditions.

## References:

- Lu et al. (2010) Plos ONE. 5(12): e15150
- Zhu et al. (2009) JEM. 206 (2): 329
- Elias et al. (2008) BLOOD. 111 (3): 1014
- Veldhoen et al. (2008) Nature Imm. 9:1341

**THIS PRODUCT IS FOR RESEARCH USES ONLY AND IS NOT FOR USE IN HUMANS!**