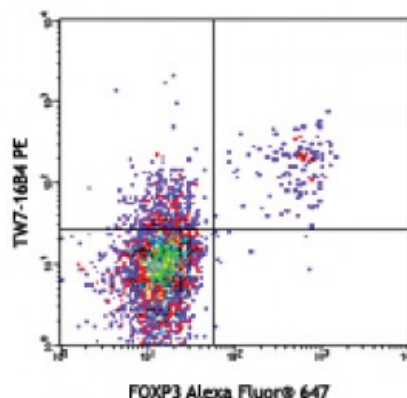


Purified anti-mouse LAP (TGF- β 1)

Catalog # / Size: 1307010 / 100 μ g
Clone: TW7-16B4
Isotype: Mouse IgG1, κ
Immunogen: Mouse *Tgfb1*-transduced P3U1 cells
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



C57BL/6 mouse splenocytes were stimulated with anti-mouse CD3, CD28, and recombinant mouse IL-2 for 48-hours, then surface stained with CD4 FITC and LAP (TGF- β 1) (clone TW7-16B4) PE (top) or mouse IgG1, κ PE isotype control (bottom). This was f

Applications:

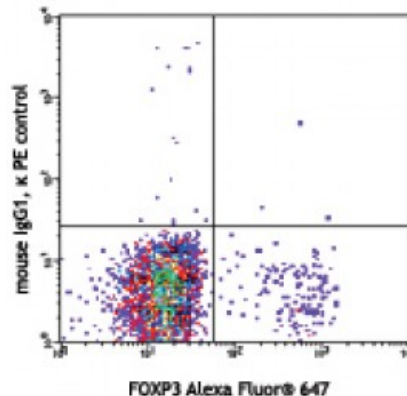
Applications: Other

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Clone TW7-16B4 has been reported to not cross-react with bovine LAP.² Several anti-LAP antibody clones have been compared and characterized for their LAP reactivity.² TW7-16B4 recognizes recombinant LAP, latent TGF- β , and pro-TGF- β .

Additional reported applications (for relevant formats) include: Western blotting¹ and immunoprecipitation¹.

Application References: 1. Oida T, *et al.* 2010. *PLoS One* 5:e15523. (FC, IP, WB)
2. Oida T, *et al.* 2011. *PLoS One* 6:e18365. (Neut)



Description: Transforming growth factor β (TGF- β) is a cytokine that has critical functions in the immune response by regulating Treg and Th17 cells. TGF- β is first synthesized

as pro-TGF- β and then it is cleaved by furin proprotein convertase in the Golgi apparatus to produce the dimeric propeptides called latency-associated peptide (LAP) that non-covalently associates with the dimeric mature TGF- β to prevent its activity. This complex can further associate with latent-TGF- β -binding protein (LTBP) to produce a large latent form for deposition onto the extracellular matrix. The latent-TGF- β can be expressed on the membrane of activated Treg cells, immature dendritic cells, megakaryocytes, and platelets.

**Antigen
References:**

1. Oida T, *et al.* 2010. *PLoS One* 5:e15523.
2. Tran D, *et al.* 2009. *P. Natl. Acad. Sci. USA* 106:13445.
3. Ochi H, *et al.* 2006. *Nat. Med.* 12:627.
4. Oida T, *et al.* 2003.