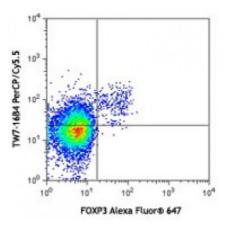
Product Data Sheet

PerCP/Cy5.5 anti-mouse LAP (TGF-β1)

Catalog # / Size:	1307045 / 25 μg 1307050 / 100 μg
Clone:	TW7-16B4
Isotype:	Mouse IgG1, κ
Immunogen:	Mouse Tgfb1-transduced P3U1 cells
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration :	0.2



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) PerCP/Cy5.5 (top) or mouse IgG1, κ PerCP/Cy5.5 isotype control (

Applications:

Applications:	Flow Cytometry
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 ≤ 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

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.

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Application	1. Oida T, <i>et al.</i> 2010. <i>PLoS One</i> 5:e15523. (FC, IP, WB)
References:	2. Oida T, <i>et al.</i> 2011. <i>PLoS One</i> 6:e18365. (Neut)
	3. Sharma SK, et al. 2015. J Immunol. 194:5529. PubMed

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **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-associate 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
 1. Oida T, et al. 2010. PLoS One 5:e15523.

 References:
 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.