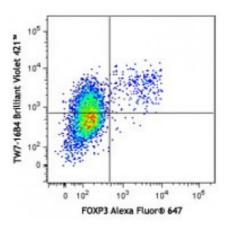
Brilliant Violet 421[™] anti-mouse LAP (TGF-β1)

| Catalog # / Size: | 1307040 / 50 μg 1307035 / 125 μl |
|--------------------|---|
| 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 Brilliant Violet 421 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 421 [™] and unconjugated antibody. |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA). |
| Concentration: | Lot-specific |



C57BL/6 mouse splenocytes were stimulated with CD3, CD28, and recombinant mouse IL-2 for 48 hours, then surface stained with CD4 FITC and LAP (TGF-B1) (clone TW7-16B4) Brilliant Violet 421 (top) or mouse IgG1, κ Brilliant Violet 421&trad

Applications:

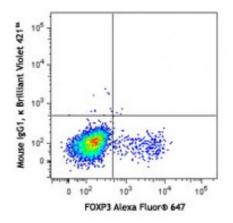
| Applications: | Flow Cytometry |
|---------------|----------------|
|---------------|----------------|

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 ≤ 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421[™] excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421[™] is a trademark of Sirigen Group Ltd.

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| | U.S. Patent(s), pending patent applications and foreign equivalents. |
|----------------------------|--|
| 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, <i>et al.</i> 2010. <i>PLoS One</i> 5:e15523. (FC, IP, WB) 2. Oida T, <i>et al.</i> 2011. <i>PLoS One</i> 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-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 References: | 1. Oida T, <i>et al.</i> 2010. <i>PLoS One</i> 5:e15523. 2. Tran D, <i>et al.</i> 2009. <i>P. Natl. Acad. Sci. USA</i> 106:13445. 3. Ochi H, <i>et al.</i> 2006. <i>Nat. Med.</i> 12:627. 4. Oida T, <i>et al.</i> 2003. |