SONY

Product Data Sheet

FITC anti-mouse LAP (TGF-β1)

Catalog # / Size:	1307070 / 100 µg 1307065 / 25 µg
Clone:	TW7-16B4
Isotype:	Mouse IgG1, κ
Reactivity:	Mouse
Concentration:	NULL

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 ≤0.5 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.

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.