Store at 4°C

FITC Anti-Mouse IL-17A Monoclonal Antibody

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Tianjin Sungene Biotech Co., Ltd.
精准 高效 稳定 Precision Efficient Stable

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Catalog Number	Vial Size
M100I17-02B	50 µg
M100I17-02E	500 µg

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.
This product is guaranteed up to one year from purchase.

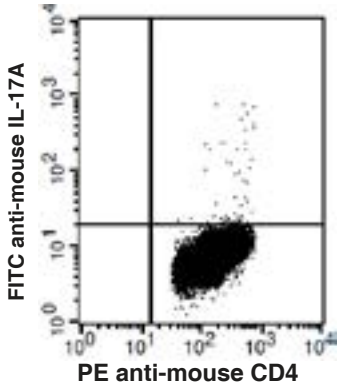
Purified Antibody Characterization

Clone	Isotype	Reactivity
17F3	Mouse IgG1	Mouse

Description

IL-17A is a cystine-linked homodimeric pro-inflammatory cytokine produced by TH_{17} cells,a distinct $CD4^+$ T cell lineage. IL-17A stimulates the production of the pro-inflammatory cytokines IL-1β, TNFα, and IL-6. IL-17A also induces production of the neutrophil chemoattractants IL-8, CXCL1, and CXCL6 thereby bridging adaptive and innate immunity . IL-17A is intimately involved in mucosal immunity against bacterial infections and has a putative role in some autoimmune disorders . IL-17A effects appear to be exerted primarily through binding to the IL-17RA.IL-17A binding induces production of cytokines, chemokines and other proteins through activation of the ERK1/2 MAP kinase, PI3K/Akt, p38, and NF-κB pathways . Phosphorylation of some Jaks and Stats has been observed.

Illustration of Immunofluorescent Staining



C57BL/6 mouse splenocytes were stimulated with plate-bound anti-mouse CD3 in culture with anti-mouse CD28, TGF-β and IL-6 for 2 days, then followed by a 4-6 hour stimulation with PMA, ionomycin and golgi-plug. Then cells were stained with PE anti-mouse CD4 and FITC anti-mouse IL-17A.

Product Information

Conjugation: FITC

Formulation: PBS pH 7.2, 0.09% NaN_3, 0.2% BSA

Concentration: 0.5mg/ml

Storage: Keep as concentrated solution. Store at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Application: Recommended Application: FC

Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis (The amount of the reagent is suggested to be used ≤ 0.25 µg /10^6 cells in 100 µl). Since applications vary, the appropriate dilutions must be determined for individual use.

References

[1] Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. J Immunol Methods. 1995;188(1):117-128.

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