

Product Data Sheet

Purified anti-human LT- α (TNF- β)

Catalog # / Size: 503102 / 500 μ g
Clone: 359-81-11
Isotype: Mouse IgG1, κ
Immunogen: *E. coli* expressed, recombinant human LT- α .
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: ICFC - *Quality tested*
 IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 0.5 \mu$ g per 10^6 cells in 100 μ l volume. The purified 359-81-11 has been tested by blocking fluorochrome conjugated 359-81-11 for intracellular cytokine staining. In order to obtain complete blocking results, a saturated amount of purified antibody (≤ 5.0 ug/million cells) should be used for incubation with target cells, prior to staining with fluorochrome conjugated antibody. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT Detection^{1,2}:** The biotinylated 359-81-11 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified 359-238-8 antibody (Cat. No. 503002/503004) as the capture antibody.
Flow Cytometry³: The fluorochrome-labeled 359-81-11 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify LT- α -producing cells within mixed cell populations. View intracellular cytokine staining protocol.
Neutralization^{1,2}: The 359-81-11 antibody can neutralize the bioactivity of natural or recombinant LT- α . The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for neutralization of human LT- α bioactivity (Cat. No. 503108).
Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections, and immunocytochemistry.

Application References: 1. Meager A, *et al.* 1987. *J. Immunol. Methods* 104:31.
 2. Meager A, *et al.* 1987. *Hybridoma* 6:305.
 3. Jason J, *et al.* 1999. *Clin. Diagn. Lab Immunol.* 6:73.

Description: Lymphotoxin- α (LT- α), also known as tumor necrosis factor-beta (TNF- β), is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. LT- α possesses a signal peptide sequence and is a secreted protein; however, LT- α is also present on the surface of activated T, B and LAK cells as a complex with LT- β . Bioactive LT- α exists as a homotrimer.

Antigen References: 1. Fitzgerald, K., *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press, San Diego.
 2. Aggarwal, B., *et al.* Eds. 1992. *Tumor necrosis factors:structure, function, and mechanism of action*. Marcel Dekker Inc.
 3. Bonavida, B., *et al.* Eds. 1990. *Tumor necrosis factor:structure, mechanisms of action, role in disease and therapy*. Karger, Basel.
 4. Paul, N., *et al.* 1987. *Annu. Rev. Immunol.* 6:407.

Related Products:

Product
 Purified anti-human LT- α (TNF- β)
 Purified Mouse IgG1, κ Isotype Ctrl
 Recombinant Human TNF- β

Clone
 359-238-8
 MOPC-21
 rh TNF-B

Application
 ELISA Capture
 FC, ICFC, ICC, IF, IHC, IP, WB
 BA, ELISA



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