

Product Data Sheet

Biotin anti-human LT- α (TNF- β)

Catalog # / Size: 503104 / 500 μ g

Clone: 359-81-11

Isotype: Mouse IgG1, κ

Immunogen: *E. coli* expressed, recombinant human LT- α .

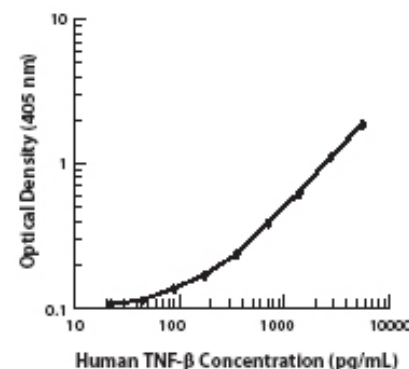
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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. **Do not freeze.**



Applications:

Applications: ELISA Detection-*Quality tested*
ELISPOT Detection, ICFC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA detection applications, a concentration range of 0.25-1.0 μ g/ml is recommended. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 μ g per 10^6 cells in 100 μ l volume. 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)
Recombinant Human TNF- β
HRP Avidin
TMB Substrate Reagent Set
ELISA Assay Diluent (5X)

Clone
359-238-8
rh TNF- β
Avidin

Application
ELISA Capture
BA, ELISA
ELISA, ELISPOT, IHC, WB
ELISA
ELISA



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