BioLegend
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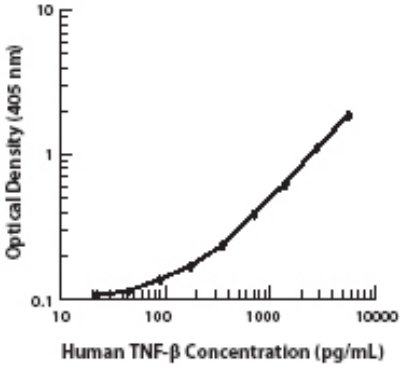
Product Data Sheet

LEAF™ Purified anti-human LT-α (TNF-β)

Catalog # / Size: 503004 / 500 µg
Clone: 359-238-8
Isotype: Mouse IgG1, κ
Immunogen: *E.coli* expressed, recombinant human LT-α.
Reactivity: Human
Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.
Concentration: 1.0 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture - *Quality tested*
ELISPOT Capture, Neut - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of LT-α recombinant protein ranging from 1000 to 8 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT Capture[1,2]:** The purified 359-238-8 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated 359-81-11 antibody (Cat. No. 503104) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.
Neutralization[1,2]: The 359-238-8 antibody can neutralize the bioactivity of natural or recombinant human LT-α. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of human IFN-γ bioactivity (Cat. No. 503004).

Application References:
1. Meager A, *et al.* 1987. *J. Immunol. Methods* 104:31.
2. Meager A, *et al.* 1987. *Hybridoma*. 6:305.

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	Clone	Application
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA
Recombinant Human TNF-β	rh TNF-B	BA, ELISA

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