

Technical Data Sheet

Biotin Mouse Anti-Human LT- α

Product Information

Material Number:	554555
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	359-81-11
Immunogen:	Recombinant Human LT- α (TNF- β)
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 359-81-11 antibody reacts with human Lymphotoxin- α (LT- α , also known as tumor necrosis factor- β or TNF- β). The immunogen used to generate the 359-81-11 hybridoma was recombinant human LT- α . This is a neutralizing antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

ELISA Detection	Routinely Tested
Neutralization	Tested During Development
Flow cytometry	Tested During Development
Western blot	Not Recommended

Recommended Assay Procedure:

1. ELISA Detection: The biotinylated 359-81-11 antibody (Cat. No. 554555) is useful as a detection antibody for a sandwich ELISA for measuring human LT- α protein levels. Biotinylated 359-81-11 antibody can be paired with the purified 359-238-8 antibody (Cat. No. 551222) as the capture antibody, with recombinant LT- α (Cat. No. 554619) as the standard. Biotinylated 359-81-11 antibody should be titrated (0.5 - 2.0 μ g/ml) to determine optimal concentration for ELISA detection. To obtain linear standard curves, doubling dilutions of human LT- α ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our web site, www.bdbiosciences.com, and go to the protocols section or the chapter on ELISA in the Immune Function Handbook.

Note: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum or plasma samples. For measuring LT- α in serum or plasma our LT- α BD OptEIA™ set (Cat. No. 550995) is specially formulated and recommended.

2. Neutralization: The NA/LE™ 359-81-11 antibody (Cat. No. 554553) has been reported to be useful for neutralization of human LT- α bioactivity. A suitable NA/LE mouse IgG1 isotype control to match the 359-81-11 antibody is the 107.3 antibody, (Cat. No. 554721).

3. IF/Flow: The 359-81-11 antibody is useful for immunofluorescent staining and flow cytometric analysis to identify and enumerate LT- α producing cells within mixed cell populations. The PE-conjugated 359-81-11 antibody (Cat. No. 554556) is especially suitable for these studies.

4. Western Blot: The 359-81-11 antibody is not recommended for Western blotting.

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
551222	Purified Mouse Anti-Human LT- α	1.0 mg	359-238-8
554619	Recombinant Human LT- α	25 mg	B27
550995	Human LT- α ELISA Set	20 tests	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

- Callard R, Gearing A. Callard R, Gearing A. *The Cytokine Facts Book*. San Diego: Academic Press; 1994.(Biology)
- Guesdon JL, Ternynck T, Avrameas S. The use of avidin-biotin interaction in immunoenzymatic techniques. *J Histochem Cytochem*. 1979; 27(8):1131-1139. (Methodology)
- Meager A, Parti S, Leung H, et al. A two-site sandwich immunoradiometric assay of human lymphotoxin with monoclonal antibodies and its applications. *J Immunol Methods*. 1987; 104(2):31-42.(Clone-specific: ELISA, Neutralization)
- Meager A, Parti S, Leung H, Peil E, Mahon B. Preparation and characterization of monoclonal antibodies directed against antigenic determinants of recombinant human tumour necrosis factor (rTNF). *Hybridoma*. 1987; 6(3):305-312.(Clone-specific: ELISA, Neutralization)