

Technical Data Sheet

Purified Mouse Anti-Human IL-1 α

Product Information

Material Number:	551223
Size:	1.0 mg
Concentration:	1.0 mg/ml
Clone:	364-3B3-14
Immunogen:	recombinant human IL-1 α
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 364-3B3-14 antibody reacts with human interleukin-1 α (IL-1 α). The immunogen used to generate the 364-3B3-14 hybridoma was recombinant human IL-1 α . The 364-3B3-14 antibody does not cross-react with human IL-1 β . This is a non-neutralizing antibody.

Preparation and Storage

Store undiluted at 4°C.

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

Application Notes

Application

ELISA Capture	Routinely Tested
Intracellular staining (flow cytometry)	Routinely Tested
Intracellular block/flow cytometry	Tested During Development

Recommended Assay Procedure:

ELISA Capture: Purified 364-3B3-14 antibody can be used as the capture antibody in a sandwich ELISA for measuring human IL-1 α protein levels in conjunction with the biotinylated anti-human IL-1 α antibody as the detecting antibody and recombinant human IL-1 α as the standard. This purified capture antibody should be pretitrated in the range of 2-6 μ g/ml to determine its optimal concentration for ELISA. For specific methodology, please visit the protocol section on our website, <http://www.bdbiosciences.com/resources/index.jsp>

Immunofluorescent Staining and Flow Cytometric Analysis: The purified format of 364-3B3-14 clone (Cat. No. 551223) is useful as a blocking control when used with the conjugated form of the antibody. The conjugated format of 364-3B3-14 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify and enumerate IL-1 α producing cells within mixed cell populations. PE-conjugated 364-3B3-14 antibodies (Cat. No. 554561) is especially suitable for these studies. For specific methodology, please visit the protocol section on our website, <http://www.bdbiosciences.com/resources/index.jsp>

Suggested Companion Products

Catalog Number	Name	Size	Clone
554561	PE Mouse Anti-Human IL-1 α	0.1 mg	364-3B3-14

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. This product is manufactured and sold under license from Pestka Biomedical Laboratories, Inc. (d/b/a PBL InterferonSource) and may be used solely as indicated. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics is strictly prohibited. This product is covered by U.S. Patent No. 5,831,022.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
5. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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. (Methodology: IC/FCM Block)
 Thorpe R, Wadhwa M, Gearing A, Mahon B, Poole S. Sensitive and specific immunoradiometric assays for human interleukin-1 α . *Lymphokine Res*. 1988; 7(2):119-127. (Clone-specific)

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