SONY

Product Data Sheet

Alexa Fluor® 647 anti-human IL-1β

Catalog # / Size: 3141040 / 100 tests
3141035 / 25 tests

Clone: JK1B-1

Isotype: Mouse IgG1

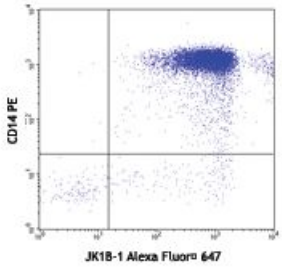
Immunogen: Recombinant human IL-1 β

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



LPS-stimulated (6 hour) human peripheral blood monocytes surface stained with CD14 PE, then intracellualar stained with JK1B-1 Alexa Fluor® 647

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per 10^6 cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

Application Notes: **ELISA and ELISPOT Capture:** The purified JK1B-1 antibody is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated JK1B-2 antibody (Cat. No. 508301) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.
Flow Cytometry: The fluorochrome-labeled JK1B-1 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-1β-producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Application References:
1. Loiarro M, *et al.* 2013. *J Biol Chem.* 288:30210. PubMed
2. Fell LH, *et al.* 2014. *Nephrol Dial Transplant.* PubMed

Description: IL-1 refers to two proteins, IL-1α and IL-1β which are the products of distinct genes, but which are recognized by the same cell surface receptors. IL-1β is a potent immuno-modulator which mediates a wide range of immune and inflammatory responses including the activation of B and T cells. The JK1B-1 antibody reacts with human interleukin-1β (IL-1β) and baboon IL-1β. The JK1B-1 antibody does not recognize mouse IL-1β or human IL-1α or other cytokines. The JK1B-1 antibody can neutralize the bioactivity of natural or recombinant IL-1β.

Antigen References:
1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
2. Bomford R, *et al.* Eds. 1989. *Interleukin-1 inflammation and disease*. Elsevier New York.
3. Brazel D, *et al.* 1991.