

Anti-Mouse IL-1 alpha SAFIRE Purified

Catalog Number :82312-25

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: ALF-161

Format/Conjugate: SAFIRE Purified

Concentration: 1.0 mg/mL

Reactivity: Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Armenian Hamster IgG

Formulation: Phosphate-buffered aqueous solution, pH7.2.

Storage: Product should be kept at 2-8°C.

Applications: FA, FC, Neutralization

Description

IL-1 α is a non-secreted, proinflammatory cytokine produced in a variety of cells, including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 α and IL-1 β bind to the same receptor and have similar, if not identical, biological properties. These cytokines have a broad range of activities including the stimulation of thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity, and the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 β is a secreted cytokine, IL-1 α is predominantly a cell-associated cytokine. The ALF-161 monoclonal antibody reacts with the precursor, secreted and membrane-associated forms of mouse IL-1 α . The antibody is reported to be usable as the capture antibody in an ELISA assay and exhibits neutralization properties.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Shibuya, K., Robinson, D., Zonin, F., Hartley, S. B., Macatonia, S. E., Somoza, C., ... O'Garra, A. (1998). IL-1 α and TNF- α are required for IL-12-induced development of Th1 cells producing high levels of IFN- γ in BALB/c but not C57BL/6 mice.;The Journal of Immunology,;160(4), 1708-1716.
2. Fuhlbrigge, R. C., Sheehan, K. C., Schreiber, R. D., Chaplin, D. D., Unanue, E. R. (1988). Monoclonal antibodies to murine IL-1 alpha. Production, characterization, and inhibition of membrane-associated IL-1 activity.;The Journal of Immunology,;141(8), 2643-2650.
3. Beckerman, K. P., Rogers, H. W., Corbett, J. A., Schreiber, R. D., McDaniel, M. L., Unanue, E. R. (1993). Release of nitric oxide during the T cell-independent pathway of macrophage activation. Its role in resistance to Listeria monocytogenes.;The Journal of Immunology,;150(3), 888-895.