

# Product Data Sheet

## PE anti-mouse IL-1 $\alpha$

**Catalog # / Size:** 503203 / 25  $\mu$ g

**Clone:** ALF-161

**Isotype:** Armenian Hamster IgG

**Immunogen:** *E. coli* - expressed, recombinant mouse IL-1

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

## Applications:

**Applications:** ICFC - *Quality tested*

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is  $\leq 1.0$   $\mu$ g per million cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** **ELISA or ELISPOT Capture:** The purified ALF-161 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated Poly5034 antibody (Cat. No. 503401) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.

**Neutralization:** Clone ALF-161 has been described to have IL-1 $\alpha$  neutralizing properties based on the *in vivo* mice model<sup>3</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended (Cat. No. 503206).

**Application References:**

1. Fuhlbrigge R, *et al.* 1988. *J. Immunol.* 141:2643.
2. Rogers HW, *et al.* 1992. *P. Natl. Acad. Sci. USA* 89:1011.
3. Yazdi AS, *et al.* 2010. *P. Natl. Acad. Sci. USA* 107:19449. (Neut)

**Description:** IL-1 refers to two proteins, IL-1 $\alpha$  and IL-1 $\beta$  which are the products of distinct genes, but which are recognized by the same cell surface receptors. IL-1 $\alpha$  is a potent immuno-modulator which mediates a wide range of immune and inflammatory responses. The ALF-161 antibody reacts with precursor, secreted and membrane-associated forms of mouse IL-1 $\alpha$ . The ALF-161 antibody can neutralize the bioactivity of natural or recombinant IL-1 $\alpha$ .

**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. *Biotechnol. Ther.* 2:241.
4. Dinarello C. 1996. *Blood* 87:2095.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	Fixation Buffer		ICC, ICFC
	Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
	Brefeldin A Solution (1,000X)		ICFC
	Monensin Solution (1,000X)		ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	PE Armenian Hamster IgG Isotype Ctrl	HTK888	FC, ICFC



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