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IL-1α (D4F3S) Rabbit mAb (PE Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P01582	Entrez-Gene Id: 16175
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	IL-1α (D4F3S) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total IL-1α protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of mouse IL-1α protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated IL-1α (D4F3S) Rabbit mAb #50794.	
Background	Interleukin 1 alpha (IL-1α) belongs to the IL-1 family of cytokines with 11 members including IL-1β. IL-1α is expressed in many cell types of both hematopoietic and non-hematopoietic origins under steady state, and its expression can be increased in response to appropriate stimuli (1,2). Like IL-1β, IL-1α is also synthesized as a precursor (pro-IL-1α) and can be cleaved into smaller mature forms. However, both pro-IL-1α and the cleaved form of IL-1α are biologically active and can activate the signaling pathway through the membrane receptor IL-1R1. IL-1α is active both as a secreted form and as a membrane-bound form. Due to such characteristics, passive leakage of IL-1α from dying cells can activate inflammation, leading some researchers to consider IL-1α as a key "alarmin in the cell" that alerts the host to damage or injury (3,4). In addition, IL-1α can also enter the nucleus to modulate transcription (5,6).	
Background References	<ol style="list-style-type: none"> Garlanda, C. et al. (2013) <i>Immunity</i> 39, 1003-18. Palomo, J. et al. (2015) <i>Cytokine</i> 76, 25-37. Bertheloot, D. and Latz, E. (2017) <i>Cell Mol Immunol</i> 14, 43-64. Di Paolo, N.C. and Shayakhmetov, D.M. (2016) <i>Nat Immunol</i> 17, 906-13. Lamacchia, C. et al. (2013) <i>Cytokine</i> 63, 135-44. Rider, P. et al. (2013) <i>Semin Immunol</i> 25, 430-8. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	M: Mouse	
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