

#13627 Store at +4°C

IL-1 β (D3U3E) Rabbit mAb (PE Conjugate)


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Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P01584	Entrez-Gene Id: 3553
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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 antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	IL-1 β (D3U3E) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total IL-1 β protein and can detect up to 100 pg of recombinant mature IL-1 β . This antibody is not observed to detect endogenous levels of mature IL-1 β .	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant human IL-1 β protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated IL-1 β (D3U3E) Rabbit mAb #12703.	
Background	Interleukin-1 β (IL-1 β), one of the major caspase-1 targets, is a multifunctional cytokine that is involved in a host of immune and proinflammatory responses (1). It is produced primarily by activated monocytes and macrophages. It signals through various adaptor proteins and kinases that lead to activation of numerous downstream targets (2-6). Human IL-1 β is synthesized as a 31 kDa precursor. To gain activity, the precursor must be cleaved by caspase-1 between Asp116 and Ala117 to yield a 17 kDa mature form (7,8). Detection of the 17 kDa mature form of IL-1 β is a good indicator of caspase-1 activity.	
Background References	<ol style="list-style-type: none"> 1. Dinarello, C.A. (1998) <i>Int Rev Immunol</i> 16, 457-99. 2. Burns, K. et al. (1998) <i>J Biol Chem</i> 273, 12203-9. 3. Cao, Z. et al. (1996) <i>Nature</i> 383, 443-6. 4. Cao, Z. et al. (1996) <i>Science</i> 271, 1128-31. 5. Wesche, H. et al. (1997) <i>Immunity</i> 7, 837-47. 6. Ninomiya-Tsuji, J. et al. (1999) <i>Nature</i> 398, 252-6. 7. Thornberry, N.A. et al. (1992) <i>Nature</i> 356, 768-74. 8. Cerretti, D.P. et al. (1992) <i>Science</i> 256, 97-100. 	
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	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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