

#13627  
Store at +4C**IL-1 $\beta$  (D3U3E) Rabbit mAb (PE Conjugate)**

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P01584	<b>Entrez-Gene Id:</b> 3553
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	IL-1 $\beta$ (D3U3E) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total IL-1 $\beta$ protein and can detect up to 100 pg of recombinant mature IL-1 $\beta$ . This antibody is not observed to detect endogenous levels of mature IL-1 $\beta$ .	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant human IL-1 $\beta$ protein.	
<b>Description</b>	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 $\beta$ (D3U3E) Rabbit mAb #12703.	
<b>Background</b>	Interleukin-1 $\beta$ (IL-1 $\beta$ ), 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 $\beta$ 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 $\beta$ is a good indicator of caspase-1 activity.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Dinarello, C.A. (1998) <i>Int Rev Immunol</i> 16, 457-99.</li> <li>2. Burns, K. et al. (1998) <i>J Biol Chem</i> 273, 12203-9.</li> <li>3. Cao, Z. et al. (1996) <i>Nature</i> 383, 443-6.</li> <li>4. Cao, Z. et al. (1996) <i>Science</i> 271, 1128-31.</li> <li>5. Wesche, H. et al. (1997) <i>Immunity</i> 7, 837-47.</li> <li>6. Ninomiya-Tsuji, J. et al. (1999) <i>Nature</i> 398, 252-6.</li> <li>7. Thornberry, N.A. et al. (1992) <i>Nature</i> 356, 768-74.</li> <li>8. Cerretti, D.P. et al. (1992) <i>Science</i> 256, 97-100.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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