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#12222**Mouse IL-3 Neutralizing (D6C1) Rabbit mAb**

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

Applications:	Reactivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:				
N	M	Rabbit IgG	#P08700	3562				
<b>Product Usage Information</b>	<p>CST recommends incubation of the neutralizing antibody with the intended target for 1 hr at 37°C before addition to the experiment at an optimal concentration determined by the user.</p> <p><b>Reconstitution:</b></p> <p>Add sterile 10 mM HEPES pH 7.0 to a final concentration of greater than 50 µg/ml. Solubilize for 20 min at room temperature with occasional gentle vortexing.</p> <table border="1"> <thead> <tr> <th>Application</th> <th>Dilution</th> </tr> </thead> <tbody> <tr> <td>Neutralizing</td> <td>1:1</td> </tr> </tbody> </table>				Application	Dilution	Neutralizing	1:1
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Neutralizing	1:1							
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in 10 mM HEPES with trehalose.							
<b>Storage</b>	Store lyophilized material at -20°C. After reconstitution, recommended storage at 4°C for 1 month or -20°C for 6 months. Avoid repeated freeze/thawing.							
<b>Specificity/Sensitivity</b>	Mouse IL-3 Neutralizing (D6C1) Rabbit mAb binds to mouse IL-3 and neutralizes its effects in a BaF3 cell proliferation assay. This antibody does not cross-react with human IL-3, human IL-5, human GM-CSF, or mouse GM-CSF.							
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a recombinant mouse IL-3 protein.							
<b>Description</b>	Neutralizing antibodies can be used to inhibit normal biological function through their binding to biological molecules. These reagents can be used to determine the effects that a particular molecule has in biological systems. Mouse IL-3 Neutralizing (D6C1) Rabbit mAb has been shown to neutralize the proliferation of IL-3-dependent BaF3 cells <i>in vitro</i> with an ND <sub>50</sub> in the range of 0.5-3.5 µg/ml.							
<b>Background</b>	IL-3 is produced by T cells, mast cells, and eosinophils (1). Target cells include hematopoietic progenitors, neutrophils, macrophages, mast cells, eosinophils, lymphoid, and erythroid cells (1). IL-3 supports growth and differentiation and is used as a media additive to support the culture of many cell types (1). The IL-3 receptor is a heterodimer of the IL-3-specific α-chain and the common β-chain, βc, which is also used by GM-CSF and IL-5. (1). Binding of IL-3 can also involve substitution of βc by a βIL-3-chain that appears to be specific for IL-3 (1,2). Binding of IL-3 to its cognate receptor(s) induces activation of Jak2 and the PI3K/Akt pathway, and phosphorylation of Stat1/3/5/6 (1). IL-3 may play an important role in the development of airway inflammation associated with asthma (3-5).							
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Reddy, E.P. et al. (2000) <i>Oncogene</i> 19, 2532-47.</li> <li>2. Hara, T. and Miyajima, A. (1992) <i>EMBO J</i> 11, 1875-84.</li> <li>3. Asquith, K.L. et al. (2008) <i>J Immunol</i> 180, 1199-206.</li> <li>4. Schroeder, J.T. et al. (2009) <i>J Immunol</i> 182, 2432-8.</li> <li>5. Munitz, A. et al. (2006) <i>J Immunol</i> 177, 77-83.</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>N:</b> Neutralizing							
<b>Cross-Reactivity Key</b>	<b>M:</b> Mouse							
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