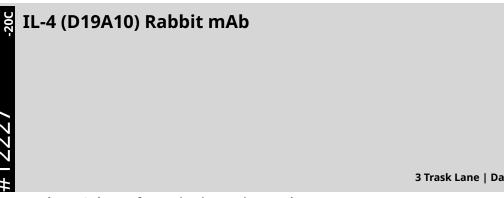
Store at





Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P05112	Entrez-Gene Id: 3565	
Product Usage Information		<b>Application</b> Western Blotting Flow Cytometry (Fixe	d/Permeabilized)			<b>Dilution</b> 1:1000 1:800	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity IL-4 (D19A10) Rabbit mAb recognizes endogenous levels of				logenous levels of total	IL-4 protein.		
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with recombinant human IL-4 protein.					
Background		Interleukin-4 (IL-4) is a cytokine secreted by activated T cells, basophils, and mast cells (1,2). While it contributes to many immunomodulatory responses, it is mainly recognized as the cytokine responsible for eliciting differentiation of naive T cells into Th2 lineage cells that are defined by their secretion of IL-4, IL-5, and IL-10 (3). In addition, IL-4 contributes to immunoglobulin class switching by inducing the production of IgE from B cells (4,5). IL-4 acts through the IL-4 receptor, leading to tyrosine phosphorylation and activation of the Stat6 transcription factor (6).					
Background Re	ferences	1. Yokota, T. et al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 5894-8. 2. Grabstein, K. et al. (1986) <i>J Exp Med</i> 163, 1405-14. 3. Kopf, M. et al. (1993) <i>Nature</i> 362, 245-8. 4. Kotowicz, K. and Callard, R.E. (1993) <i>Eur J Immunol</i> 23, 2250-6. 5. Thyphronitis, G. et al. (1989) <i>Proc Natl Acad Sci USA</i> 86, 5580-4. 6. Hou, J. et al. (1994) <i>Science</i> 265, 1701-6.					
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	ey	W: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivit	у Кеу	H: Human					
Trademarks an	d Patents	Cell Signaling Techno	logy is a trademark	of Cell Signaling Techno	logy, Inc.		
		Alexa Fluor is a registered trademark of Life Technologies Corporation.					
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.					
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.					
		Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a					

component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.