IL-2Rα Antibody			
Store	Orders: 877-616-CELL (2355 orders@cellsignal.com		
	Support: 877-678-TECH (8324		
#5370	Web: info@cellsignal.com cellsignal.com		
LO #	3 Trask Lane Danvers Massachusetts 01923 USA		
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: R W	eactivity: H	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit	UniProt ID: #P01589	Entrez-Gene Id 3559	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitiv	vity	IL-2Rα Antibody detects endogenous levels of total human IL-2Rα protein.					
Source / Purificatio	on	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region surrounding Ala34 of human IL-2Rα protein. Antibodies were purified by protein A and peptide affinity chromatography.					
Background		Interleukin-2 (IL-2) is a T cell stimulatory cytokine best known for inducing T cell proliferation and NK cell proliferation and activation (1,2). IL-2 also promotes peripheral development of regulatory T cells (Tregs) (3,4). Conversely, IL-2 is involved in the activation-induced cell death (AICD) that is observed pos T cell expansion by increasing levels of Fas on CD4 ⁺ T cells (5). The effects of IL-2 are mediated through a trimeric receptor complex consisting of IL-2R α , IL-2R β , and the common gamma chain, γ c (1,2). IL-2R α binds exclusively to IL-2 with low affinity and increases the binding affinity of the whole receptor complex including IL-2R β and γ c subunits. IL-15 also binds to IL-2R β (1,2). γ is used by other cytokines, including IL-4, IL-7, IL-9, IL-15, and IL-21 (1,2). Binding of IL-2 initiates signaling cascades involving Jak1, Jak3, Stat5, and the PI3K/Akt pathways (1,2).					
Background Refere	ences	1. Ma, A. et al. (2006) <i>Annu Rev Immunol</i> 24, 657-79. 2. Gaffen, S.L. and Liu, K.D. (2004) <i>Cytokine</i> 28, 109-23. 3. Fehérvari, Z. et al. (2006) <i>Trends Immunol</i> 27, 109-11. 4. Antony, P.A. et al. (2006) <i>J Immunol</i> 176, 5255-66. 5. Jaleco, S. et al. (2003) <i>J Immunol</i> 171, 61-8.					
Species Reactivity		Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffe	r	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key		W: Western Blotting					
Cross-Reactivity Ke	ey	H: Human					
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