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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P60568	Entrez-Gene Id: 3558
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
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-2 (D7A5) Rabbit mAb recognizes endogenous levels of total human IL-2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to a fragment of human IL-2.				
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 post 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, γc (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 γc subunits. IL-15 also binds to IL-2R β (1,2). γc 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 References		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 determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		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 Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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