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## **IL-2Rβ** Antibody



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

Applications: WB	Reactivity: H	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 60-70	<b>Source:</b> Rabbit	UniProt ID: #P14784	Entrez-Gene Id: 3560
Product Usage Information	Application			Dilution		
	We	stern Blotting		1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		IL-2Rβ Antibody detects transfected levels of total IL-2Rβ protein.				
Source / Purification	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr420 of human IL-2R $\beta$ . Antibodies are purified by protein A and peptide affinity chromatography.				
Background	proli (3,4) expa trime bind inclu IL-4.	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 <sup>+</sup> T cells (5). The effects of IL-2 are mediated through a trimeric receptor complex consisting of IL-2R $\alpha$ , IL-2R $\beta$ , and the common gamma chain, yc (1,2). IL-2R $\alpha$ binds exclusively to IL-2 with low affinity and increases the binding affinity of the whole receptor complex including IL-2R $\beta$ and yc subunits. IL-15 also binds to IL-2R $\beta$ (1,2). yc 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).				
1. Ma, A. et al. (2006) Annu Rev Immunol 24, 657-79. 2. Gaffen, S.L. and Liu, K.D. (2004) Cytokine 28, 109-23. 3. Fehérvari, Z. et al. (2006) Trends Immunol 27, 109-11. 4. Antony, P.A. et al. (2006) J Immunol 176, 5255-66. 5. Jaleco, S. et al. (2003) J Immunol 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** 

WB: Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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