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IL-2Rα/CD25 (D6K5F) Rabbit mAb

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Applications: Reacti WB H	vity: Sensitivity: Endogenous	MW (kDa): 35, 60	Source/Isotype: Rabbit IgG	UniProt ID: #P01589	Entrez-Gene Id: 3559	
Product Usage Information	Application			Dilution		
Storage	Western Blotting 1:1000 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 aliguot the antibody.					
Specificity / Sensitivity	IL-2R α /CD25 (D6K5F) Rabbit mAb recognizes endogenous levels of total IL-2R α (CD25) protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala34 of human IL-2R α (CD25) protein.					
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, yc (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 yc subunits. IL-15 also binds to IL-2R β (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).					
Background References	 Ma, A. et al. (2006) Annu Rev Immunol 24, 657-79. Gaffen, S.L. and Liu, K.D. (2004) Cytokine 28, 109-23. Fehérvari, Z. et al. (2006) Trends Immunol 27, 109-11. Antony, P.A. et al. (2006) J Immunol 176, 5255-66. 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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