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Product datasheet for TA392479S

IL2 Receptor beta (IL2RB) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:2000~1:5000
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to Human IL-2RB/CD122.
Specificity:	IL-2RB/CD122 polyclonal antibody detects endogenous levels of IL-2RB/CD122 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 64kDa
Gene Name:	interleukin 2 receptor subunit beta
Database Link:	Entrez Gene 3560 Human P14784

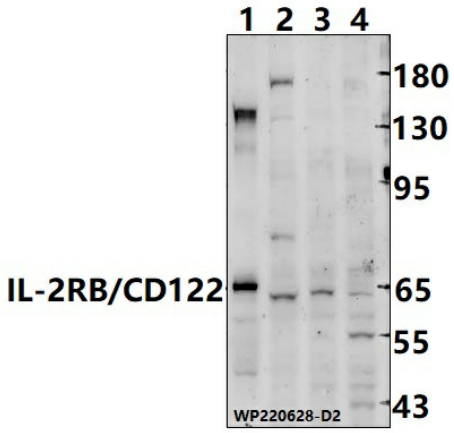
View online »

Background: Interleukin-2 (IL-2) is a T cell stimulatory cytokine best known for inducing T cell proliferation and NK cell proliferation and activation. IL-2 also promotes peripheral development of regulatory T cells (Tregs). 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. The effects of IL-2 are mediated through a trimeric receptor complex consisting of IL-2Rα, IL-2Rβ, and the common gamma chain, γc. IL-2Rα binds exclusively to IL-2 with low affinity and increases the binding affinity of the whole receptor complex including IL-2Rβ and γc subunits. IL-15 also binds to IL-2Rβ. γc is used by other cytokines, including IL-4, IL-7, IL-9, IL-15, and IL-21. Binding of IL-2 initiates signaling cascades involving Jak1, Jak3, Stat5, and the PI3K/Akt pathways.IL-2Rβ, also known as CD122, is a type I transmembrane protein that is expressed by natural killer cells and certain subsets of T cells in the periphery. IL-2Rβ surface expression is upregulated following antigen-induced activation. A heteromeric complex composed of IL-2Rβ and γc forms the intermediate affinity IL-2 receptor whereas a complex comprised of all three chains forms the high affinity receptor. Signaling through IL-2Rβ is mediated by Jak1, which phosphorylates numerous tyrosine residues in the cytoplasmic tail to promote the recruitment of the adaptor Shc to IL-2Rβ and enhance IL-2 receptor signaling.

Synonyms: CD122; High affinity IL-2 receptor subunit beta; IL-2 receptor subunit beta; IL-2RB; IL-2R subunit beta; IL2RB; IL15RB; Interleukin-2 receptor subunit beta; Interleukin-15 receptor subunit beta

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of IL-2RB/CD122 polyclonal antibody at 1:2000 dilution
Lane1:The Liver tissue lysate of Mouse(30ug)
Lane2:PC12 whole cell lysate(30ug)
Lane3:HCT116 whole cell lysate(30ug)
Lane4:H1792 whole cell lysate(30ug)