

## IL-2R $\beta$ Polyclonal Antibody

<b>Catalog No :</b>	YT2331
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	IL-2R $\beta$
<b>Fields :</b>	>>Cytokine-cytokine receptor interaction;>>Viral protein interaction with cytokine and cytokine receptor;>>Endocytosis;>>PI3K-Akt signaling pathway;>>JAK-STAT signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>Measles;>>Human T-cell leukemia virus 1 infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer
<b>Gene Name :</b>	IL2RB
<b>Protein Name :</b>	Interleukin-2 receptor subunit beta
<b>Human Gene Id :</b>	3560
<b>Human Swiss Prot No :</b>	P14784
<b>Mouse Gene Id :</b>	16185
<b>Mouse Swiss Prot No :</b>	P16297
<b>Rat Gene Id :</b>	25746
<b>Rat Swiss Prot No :</b>	P26896
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human IL-2R beta. AA range:331-380
<b>Specificity :</b>	IL-2R $\beta$ Polyclonal Antibody detects endogenous levels of IL-2R $\beta$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 61kD

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**Cell Pathway :** Cytokine-cytokine receptor interaction;Endocytosis;Jak\_STAT;

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**Background :** The interleukin 2 receptor, which is involved in T cell-mediated immune responses, is present in 3 forms with respect to ability to bind interleukin 2. The low affinity form is a monomer of the alpha subunit and is not involved in signal transduction. The intermediate affinity form consists of an alpha/beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. Both the intermediate and high affinity forms of the receptor are involved in receptor-mediated endocytosis and transduction of mitogenic signals from interleukin 2. The protein encoded by this gene represents the beta subunit and is a type I membrane protein. The use of alternative promoters results in multiple transcript variants encoding the same protein. The protein is primarily expressed in the hematopoietic system. The use by some variants of an alternate promoter in an up

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**Function :** domain:The box 1 motif is required for JAK interaction and/or activation.,domain:The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.,function:Receptor for interleukin-2. This beta subunit is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2.,similarity:Belongs to the type I cytokine receptor family. Type 4 subfamily.,similarity:Contains 1 fibronectin type-III domain.,subunit:Non-covalent dimer of an alpha and a beta chains. IL2R exists in 3 different forms: a high affinity dimer, an intermediate affinity monomer (beta chain), and a low affinity monomer (alpha chain). The high and intermediate affinity forms also associate with a gamma chain. Interacts with SHB upon interleukin stimulation. Interacts with HTLV-1 accessory protein p12I.,

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**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein .

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**Expression :** Lung,

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**Sort :** 8498

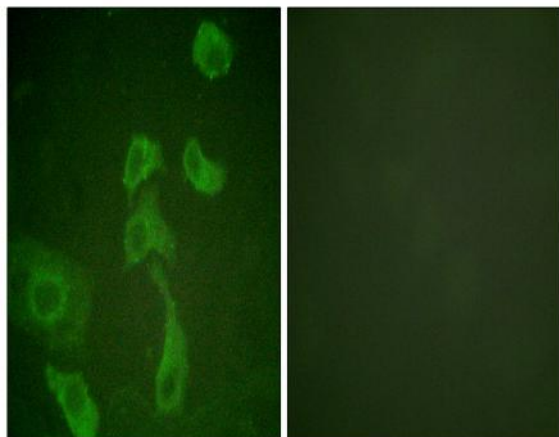
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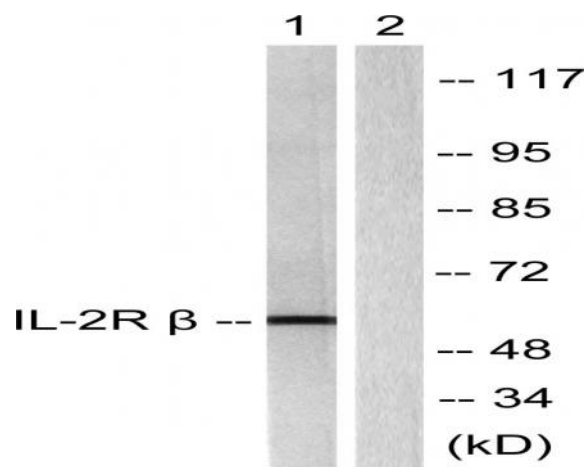
<b>No4 :</b>	<u>1</u>
<b>Host :</b>	<u>Rabbit</u>
<b>Modifications :</b>	<u>Unmodified</u>

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## Products Images



Immunofluorescence analysis of HeLa cells, using IL-2R beta Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using IL-2R beta Antibody. The lane on the right is blocked with the synthesized peptide.