

IL-2Rβ (phospho Tyr364) Polyclonal Antibody

Catalog No: YP0369

Reactivity: Human; Mouse; Rat

Applications: WB;IF;ELISA

Target: IL-2Rβ

Fields: >>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

Gene Name: IL2RB

Protein Name: Interleukin-2 receptor subunit beta

P14784

P16297

Human Gene Id: 3560

Human Swiss Prot

No:

Mouse Gene Id: 16185

Mouse Swiss Prot

No:

Rat Gene ld: 25746

Rat Swiss Prot No: P26896

Immunogen: The antiserum was produced against synthesized peptide derived from human

IL-2R beta around the phosphorylation site of Tyr364. AA range:331-380

Specificity: Phospho-IL-2Rβ (Y364) Polyclonal Antibody detects endogenous levels of

IL-2Rβ protein only when phosphorylated at Y364.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.



Source: Polyclonal, Rabbit, IgG

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

applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 61kD

Cell Pathway: Cytokine-cytokine receptor interaction; Endocytosis; Jak_STAT;

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

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

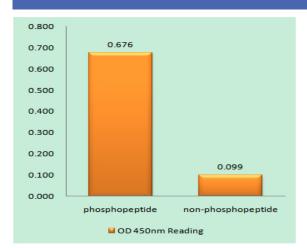
with HTLV-1 accessory protein p12I.,

Subcellular Location:

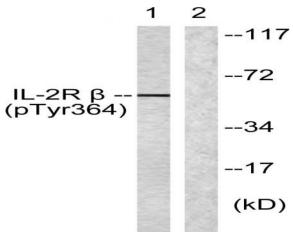
Cell membrane; Single-pass type I membrane protein.

Expression : Lung,

Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IL-2R beta (Phospho-Tyr364) Antibody



Western blot analysis of lysates from HeLa cells, using IL-2R beta (Phospho-Tyr364) Antibody. The lane on the right is blocked with the phospho peptide.