



# IL-2R $\beta$ (phospho Tyr364) Monoclonal Antibody

Catalog No	BYmab-12998
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB
Gene Name	IL2RB
Protein Name	Interleukin-2 receptor subunit beta
Immunogen	The antiserum was produced against synthesized peptide derived from human IL-2R beta/CD122 around the phosphorylation site of Tyr364. AA range:331-380
Specificity	Phospho-IL-2R $\beta$ (Y364) Monoclonal Antibody detects endogenous levels of IL-2R $\beta$ protein only when phosphorylated at Y364.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	IL2RB; Interleukin-2 receptor subunit beta; IL-2 receptor subunit beta; IL-2R subunit beta; IL-2RB; High affinity IL-2 receptor subunit beta; p70-75; p75; CD antigen CD122
Observed Band	75kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein .
Tissue Specificity	Lung,
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

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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 p12L.

## 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

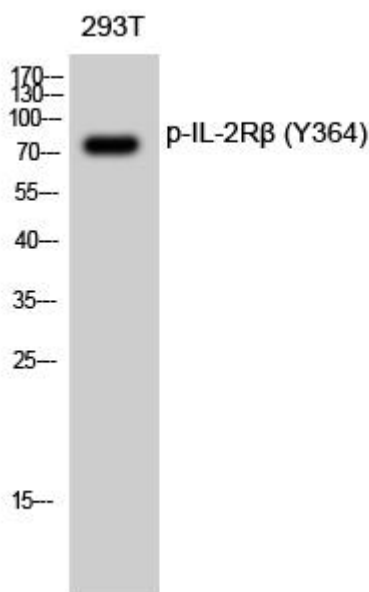
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using IL-2R  $\beta$  (phospho Tyr364) Monoclonal Antibody