

Product name:	IL-2R β Rabbit Polyclonal Antibody
Cat number:	ABN12548
Conjugate:	Unconjugated
Size:	100 μ L
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human IL-2R beta. AA range:331-380
Reactivity:	Human,Mouse,Rat
Applications:	WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight:	61kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

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 updomain: 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.,