

Recombinant Human IL2RB, Fc-tagged

Cat. No. IL2RB-29776TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 27-237 of Human IL2 Receptor beta fused to the Fc region of human IgG1 expressed in modified human 293 cells.
Species	Human
ProteinLength	27-237 a.a.
Description	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.
Conjugation	Fc
Biological activity	IL2RB-29776TH bound to protein A sepharose beads is able to pull down its ligand, IL2.
Form	Lyophilised:It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not reco

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin
Storage	Store at +4°C.
Sequences of amino acids	Theoretical Sequence:AVNGTSQFTCFYNSRANISCVWSQDGALQ DTSCQVHAWPD RRRWNTCELLPVSQASWACNLILGAP DSQKLTTVDIVTLRVLCREGVRWRVMAIQ DFKPFENLR LMAPISLQVVHVETHRCNISWEISQASHYFERHLEFEARTLSPGHTWE EAPLLTLKQKQEWICLETLTPDTQYEFQVR VKPLQGEFTTWSPWSQPLAFRTKPAA LGIPKVDKKVEP KSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISR TPEVTCV VVDVSHEDPEVKFNWYVDGVEVHNAKTKPRE EQYNSTYRVVSVLTVLHQDWLNG KEYKCKVSNKALPAPIE KTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKG FY PSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSK LTVDKSRWQQGNVFCSSVM HEALHNHYTQKSLSLSPGK

GENE INFORMATION

Gene Name	IL2RB interleukin 2 receptor, beta [Homo sapiens]
Official Symbol	IL2RB
Synonyms	IL2RB; interleukin 2 receptor, beta; IL15RB, interleukin 15 receptor, beta; interleukin-2 receptor subunit beta; CD122;
Gene ID	3560
mRNA Refseq	NM_000878
Protein Refseq	NP_000869

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MIM	146710
Uniprot ID	P14784
Chromosome Location	22q13
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Downstream signaling in naive CD8+ T cells, organism-specific biosystem; Endocytosis, organism-specific biosystem;
Function	interleukin-2 binding; interleukin-2 receptor activity; contributes_to interleukin-2 receptor activity; receptor activity;

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