

Recombinant Canine IL2RB Protein, His-tagged

Cat. No. IL2RB-453C Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Canine IL2RB (NP_001273779.1) (Met1-Pro244) was expressed with a polyhistidine tag at the C-terminus.

Species Canine

Source HEK293

ProteinLength Met1-Pro244

Description

Interleukin-2 receptor (IL-2R) also known as High affinity IL-2 receptor subunit beta, IL-2 receptor subunit beta, and IL-2RB, is involved in T cell-mediated immune responses. CD122/IL-2RB 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 CD122/IL-2RB are involved in receptor-mediated end centigradeytosis and transduction of mitogenic signals from interleukin 2. CD122/IL-2RB expression was restricted to the earliest B220+ cells (CD43+CD24-; prepro B cells; fraction A) that proliferate vigorously to IL-2 in the absence of any stromal cells, but not to IL-15. The high-affinity form of this receptor is expressed on activated T lymph centigradeytes, activated B lymph centigradeytes, and activated macrophages. CD122/IL-2RB plays a role in regulating normal lymph centigradeyte development.

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Predicted N Terminal	Ser 25
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant canine IL2RB consists of 231 amino acids and predicts a molecular mass of 26.8 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Official Symbol	IL2RB
Synonyms	IL2RB;interleukin 2 receptor subunit beta;interleukin-2 receptor subunit beta;IL 2/15 receptor beta chain;interleukin 2 receptor, beta

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