MBS2097343 50µg

Active Interleukin 2 Receptor Beta (IL2Rb)
Organism Species: ***Mus musculus (Mouse)***
Instruction manual
1st Edition (Apr, 2016)

[PROPERTIES]

Source: Prokaryotic expression.
Host: *E. coli*
Residues: Ala27~Glu240
Tags: N-terminal His-tag
Purity: >92%
Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).
Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl and 5% trehalose.
Applications: Cell culture; Activity Assays; In vivo assays.
(May be suitable for use in other assays to be determined by the end user.)
Predicted isoelectric point: 8.1
Predicted Molecular Mass: 26.3kDa
Accurate Molecular Mass: 27kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.
Store at 2-8°C for one month.
Aliquot and store at -80°C for 12 months.
Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

AVKN CSHLECFYNS RANVSCMWSH
EEALNVTTCH VHAKSNLRHW NKTCELTLVR QASWACNLIL GSFPESQSLT
SVDLLDINVV CWEEKGWRRV KTCDFHPFDN LRLVAPHSLQ VLHIDTQRCN
ISWKVSQVSH YIEPYLEFEA RRRLLGHSWE DASVLSLKQR QQWLFLEMLI
PSTSYEVQVR VKAQRNNTGT WSPWSQPLTF RTRPADPMKE

[ACTIVITY]

IL2RB (interleukin-2 receptor subunit beta) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, which binds and responds to a cytokine called IL-2. Thus we have conducted a binding ELISA assay to detect the interaction of recombinant mouse IL2RB with recombinant mouse IL2. Briefly, IL2RB were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL2RB pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μL stop solution to the wells and read at 450nm immediately. The binding activity of IL2RB with IL2 was shown in Figure 1 and this effect was in a dose dependent manner.

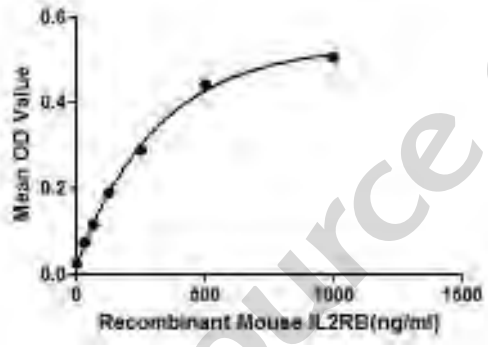

Figure 1. The binding activity of IL2RB with IL2.

[IDENTIFICATION]

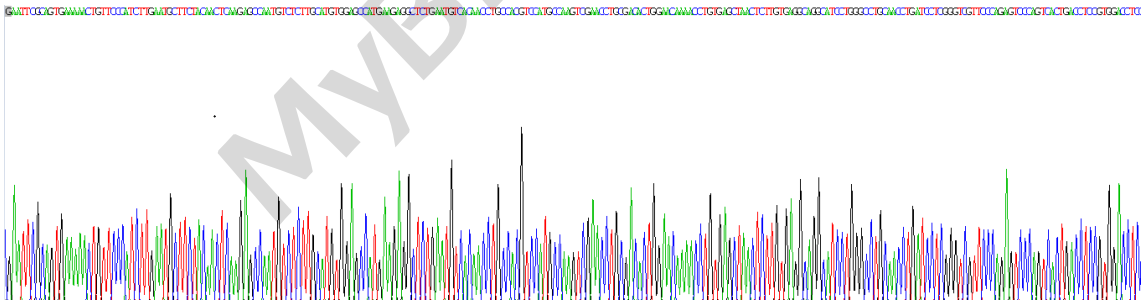

Figure 2. Gene Sequencing (extract)

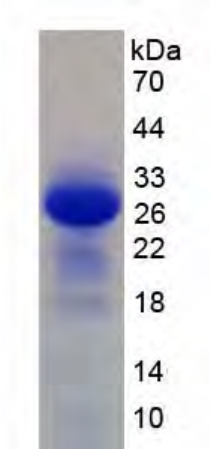

Figure 3. SDS-PAGE

Sample: Active recombinant IL2Rb, Mouse

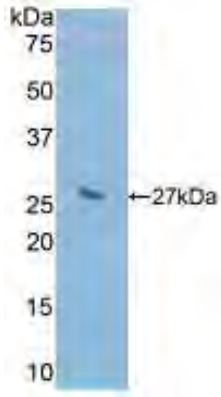

Figure 4. Western Blot

Sample: Recombinant IL2Rb, Mouse;

Antibody: Rabbit Anti-Mouse IL2Rb Ab (MBS2002997)

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.