APB815Mu02 100μg
Active Interleukin 6 Receptor (IL6R)
Organism Species: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Apr, 2016)

[PROPERTIES]

Source: Prokaryotic expression.
Host: *E. coli*
Residues: Ala52~Ala204
Tags: N-terminal His-tag
Purity: >98%
Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl 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: 6.5
Predicted Molecular Mass: 18.0kDa
Accurate Molecular Mass: 18kDa 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^{o}C for one month.
Aliquot and store at -80^{o}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 37ºC 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]

AAGNVTIHW VYSGSQNREW TTTGNTLVLR DVQLSDTGDY LCSLNDHLVG TVPLLVDVPP EEPKLSCFRK NPLVNAICEW RPSSTPSPTT KAVLFAKKIN TTNGKSDFQV PCQYSQQLKS FSCQVEILEG DKVYHIVSLC VANSVGSKSS HNEA

[ACTIVITY]

IL6R (Interleukin-6 receptor subunit alpha) is part of the receptor for interleukin 6. The interaction of IL6R and IL6 may lead to the regulation of the immune response, acute-phase reactions and hematopoiesis. Thus, a binding ELISA assay was conducted to detect the association of IL6R with IL6. Briefly, IL6R were diluted serially in PBS with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL6-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL6R 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 IL6R with IL6 was shown in Figure 1 and this effect was in a dose dependent manner.

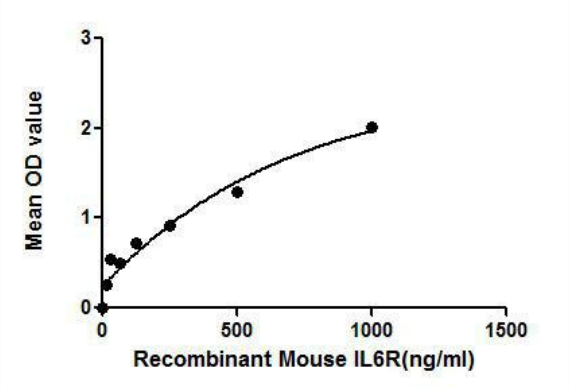

Figure 1. The binding activity of IL6R with IL6.

[IDENTIFICATION]

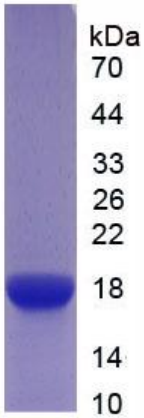

Figure 2. SDS-PAGE

Sample: Active recombinant IL6R, Mouse

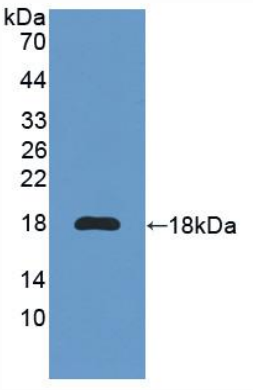

Figure 3. Western Blot

Sample: Recombinant IL6R, Mouse;

Antibody: Rabbit Anti-Mouse IL6R Ab (PAB815Mu02)