

Active Interleukin 1 Beta (IL1b) Instruction Manual

SBPA147Mu02

Mus musculus (Mouse)

Buffer Formulation

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Traits

Freeze-dried powder

Purity

> 97%

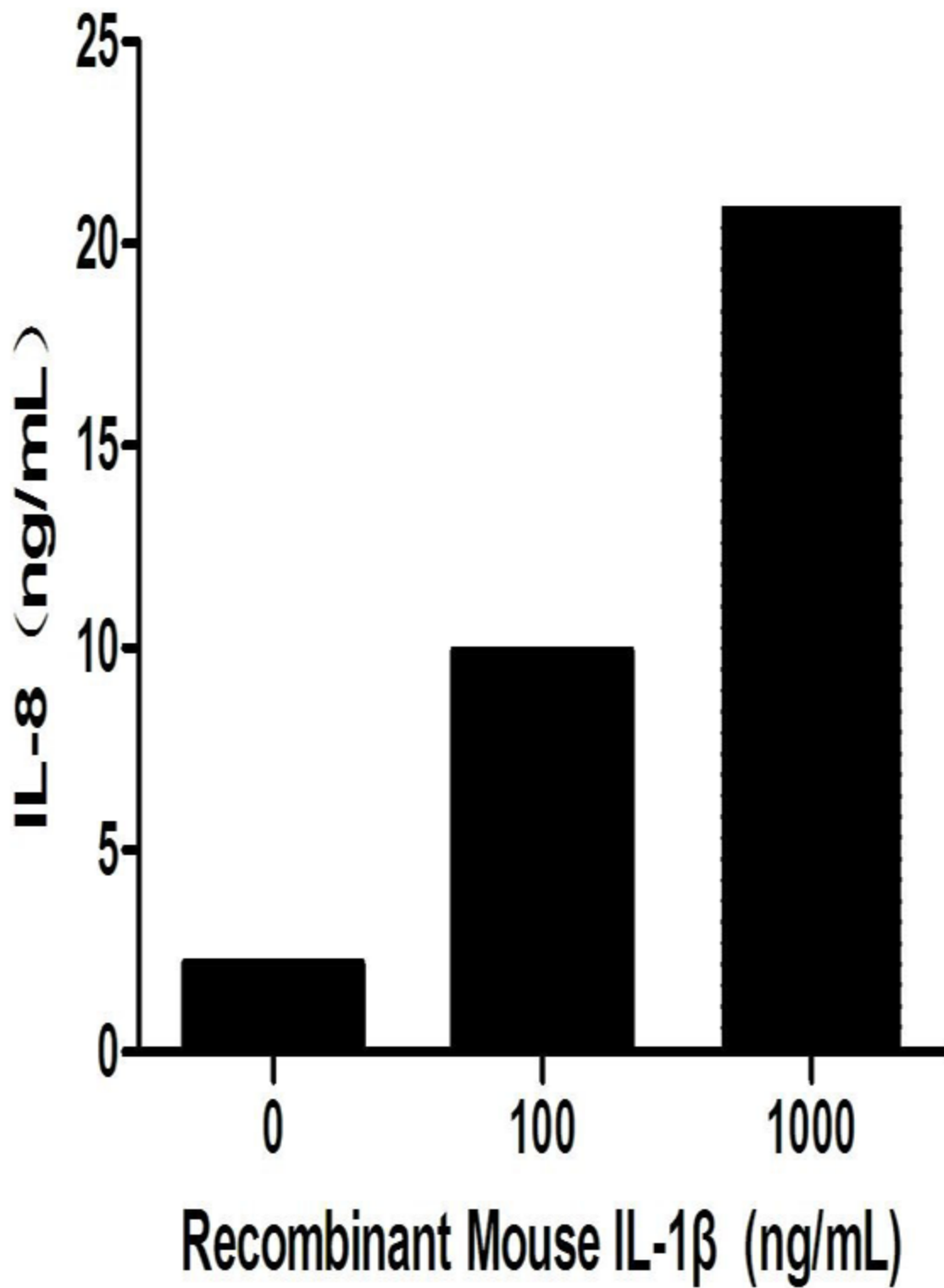
Isoelectric Point

8.6

Applications

Cell culture; Activity Assays.

ACTIVITY TEST



Interleukin 1 beta (IL-1 β) also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor, lymphocyte activating factor and other names, is a member of the interleukin 1 family of cytokines. This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. It has been reported that IL-1 β can induced IL-8 production in A549 cells. To test the bioactivity of IL-1 β , A549 cells were seeded into 24-well plate at a density of 1x10⁶ cells/mL, and allowed to attach overnight before treated with certain concentrations (0.1ng/mL-1000ng/mL) of IL-1 β for 24h and IL-8 levels in the cell supernatant were determined by ELISA. IL-8 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL-1 β have shown in Figure1.

Figure. IL-8 levels in the cell supernatant of A549 induced by IL-1 β .

USAGE

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

STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

STABILITY

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.

Image

16TTCCATAGACAC TCAC TAGGCTTCGAGATGACACAAAAGCC TCG TCCTGTCGGACCCATA TGAGC TGAAAC TC TCACCC TCA TGACAGATA TCAACGACACAGTGATATTC TCATGAGC TTG TCAAGGAGAACCAAGCAAGCAAAA TCCCTGTCGCTTGGGCTCAAGGAAGATC
V P I R Q L E Y R L R D E Q Q E S L V L S D P Y E L K A L E L W G Q N I W Q Q V I F S H S P V Q G E P S D K I P V A L G L E G N L

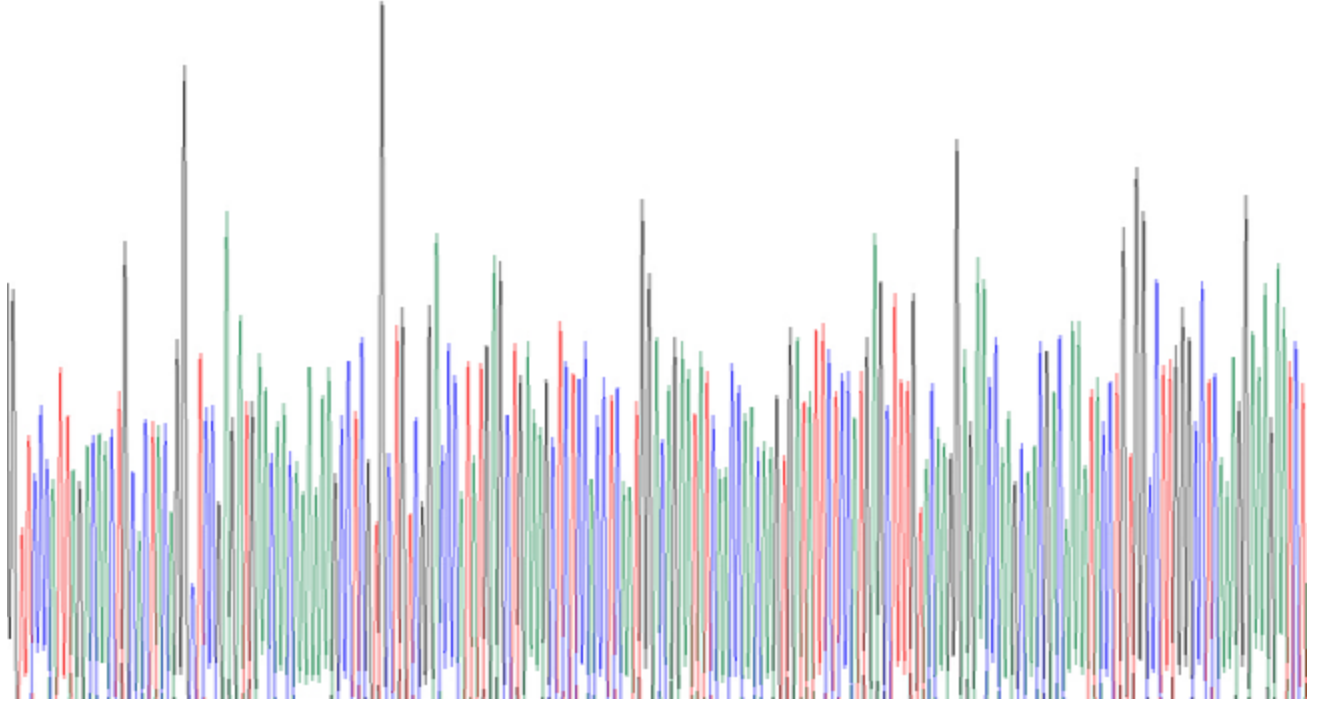


Figure. Gene Sequencing (extract)

Image

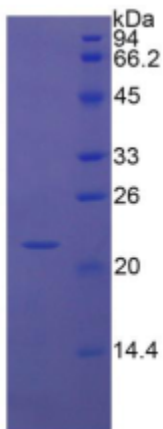
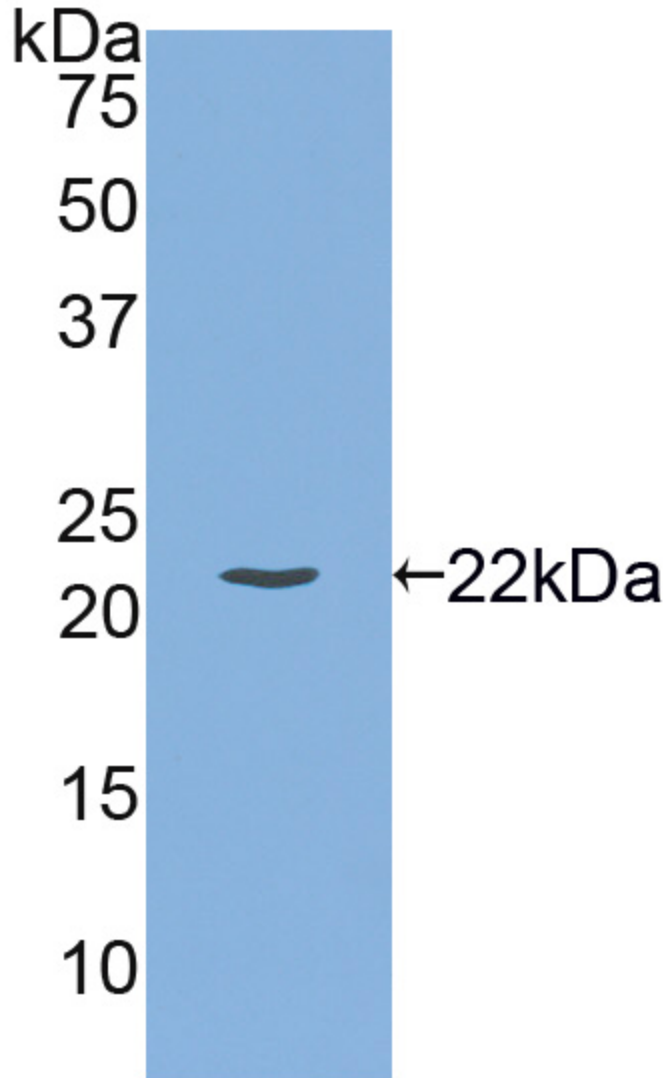


Figure. SDS-PAGE



Sample: Recombinant IL1b, Mouse;
Antibody: Rabbit Anti-Mouse IL1b Ab (PAA563Mu02)
Figure. Western Blot

[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.