

APA563Rb01 100µg

Active Interleukin 1 Beta (IL1b)

Organism Species: Oryctolagus cuniculus (Rabbit)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Apr, 2016)

[PROPERTIES]

Source: Prokaryotic expression.

Host: E. coli

Residues: Val118~Ser268 Tags: N-terminal His-tag

Purity: >95%

Endotoxin Level: <1.0EU per 1μg (determined by the LAL method). **Buffer Formulation:** PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Applications: Cell culture; Activity Assays.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 6.5

Predicted Molecular Mass: 20.3kDa

Accurate Molecular Mass: 21kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 10mM PBS (pH7.4) 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.

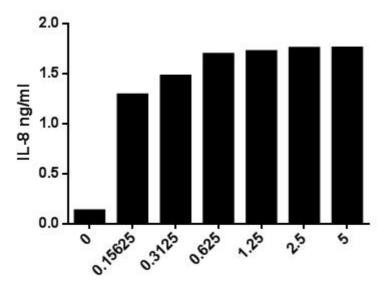
Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

VRSLHCRLQDAQQKSLVLSGTYELKALHLNAENLNQQVVFSMSFVQGEESND KIPVALGLRGKNLYLSCVMKDDKPTLQLESVDPNRYPKKKMEKRFVFNKIEIKD KLEFESAQFPNWYISTSQTEYMPVFLGNNSGGQDLIDFSMEFVSS

[ACTIVITY]

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(0.15-5 μ g/mL) of IL-1 β for 24h, then the 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.



Recombinant Rabbt IL-1β (µg/mL)

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

[IDENTIFICATION]

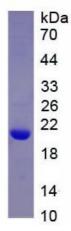


Figure 2. SDS-PAGE

Sample: Active recombinant IL1b, Rabbit

Cloud-Clone Corp.

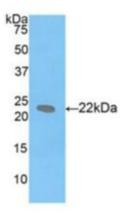


Figure 3. Western Blot

Sample: Recombinant IL1b, Rabbit;

Antibody: Rabbit Anti- Rabbit IL1b Ab (PAA563Rb01)

[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.