

APB700Hu01 100µg

Active Interleukin 17B (IL17B)

Organism Species: Homo sapiens (Human)

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: Gln21~Phe180

Tags: N-terminal His-tag

Purity: >95%

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: 9.7

Predicted Molecular Mass: 22.1kDa

Accurate Molecular Mass: 20kDa 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]

QPRSPKSKRK GQGRPGPLAP GPHQVPLDLV
 SRMKPYARME EYERNIEEMV AQLRNSSELA QRKCEVNLQL WMSNKRSLSP
 WGYSINHDP S RIPVDLPEAR CLCLGCVNPF TMQEDRSMVS VPVFSQVPVR
 RRLCPPPPRT GPCRQRAVME TIAVGCTCIF

[ACTIVITY]

IL17B (Interleukin-17B) is a T cell-derived cytokine that shares sequence similarity with IL17, which has been proven to mediate potent inflammatory immune response. Besides, increasing evidence suggests that IL17 may play a critical role in various kinds of liver diseases, including hepatocellular carcinoma. Thus a stimulation assay has been conducted to detect the bioactivity of IL17B. HepG2 cells were seeded into 24-well plate at a density of 1×10^5 cells/mL, and allowed to attach overnight before treated with or without certain concentrations (250ng/mL, 500ng/mL) of IL17B for 20h and IL-8 levels in the cell supernatant were determined by ELISA.

Table 1. IL-8 levels in the cell supernatant of HepG2 cells up-regulated by IIL17B.

Sample (cell supernatant of A549 cells)	O.D. value	Corrected	Concentration of IL-6 (ng/mL)
stimulated with IL17B (250ng/mL)	0.83	0.80	1.19
stimulated with IL17B (500ng/mL)	0.94	0.91	1.36
unstimulated	0.56	0.53	0.80

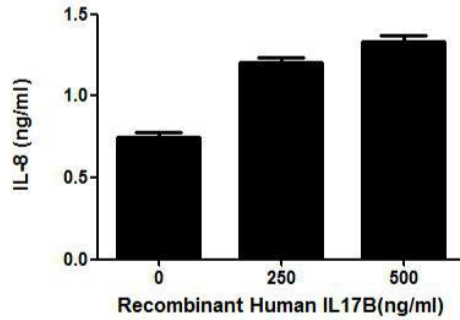


Figure 1. IL-8 levels in the cell supernatant of HepG2 cells up-regulated by IL17B.

[IDENTIFICATION]

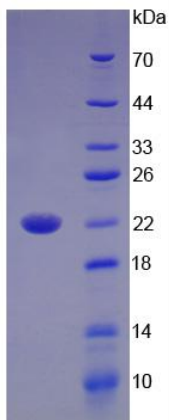


Figure 2. SDS-PAGE

Sample: Active recombinant IL17B, Human

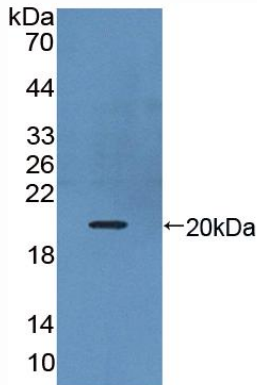


Figure 3. Western Blot

Sample: Recombinant IL17B, Human;

Antibody: Rabbit Anti-Human IL17B Ab (PAB700Hu01)