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

1th 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^{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]

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

[ACTIVITY]

IL17B (Interleukin-17B) is 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 hepatocellualar 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 $1x10^5$ 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

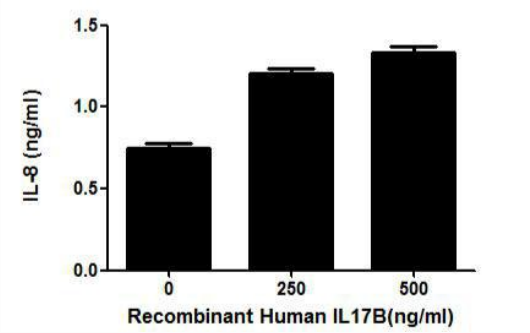

Figure 1. IL-8 levels in the cell supernatant of HepG2 cells up-regulated by IIL17B.

[IDENTIFICATION]

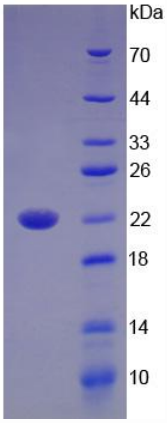

Figure 2. SDS-PAGE

Sample: Active recombinant IL17B, Human

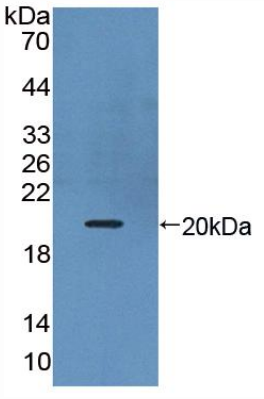

Figure 3. Western Blot

Sample: Recombinant IL17B, Human;

Antibody: Rabbit Anti-Human IL17B Ab (PAB700Hu01)