

APA077Hu01 10µg

Active Interleukin 4 (IL4)

Organism Species: Homo sapiens (Human)

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: His25~Ser153

Tags: N-terminal His-tag

Purity: >95%

Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).

Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% sarcosyl, 5% trehalose.

Predicted isoelectric point: 9.3

Predicted Molecular Mass: 16.6kDa

Accurate Molecular Mass: 17kDa as determined by SDS-PAGE reducing conditions.

Applications: Cell culture; Activity Assays; In vivo assays.

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

[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.

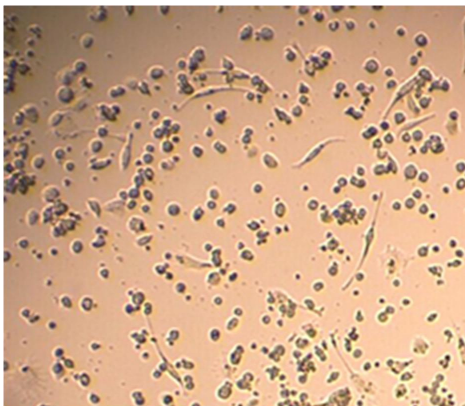
Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date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

[**SEQUENCE**]

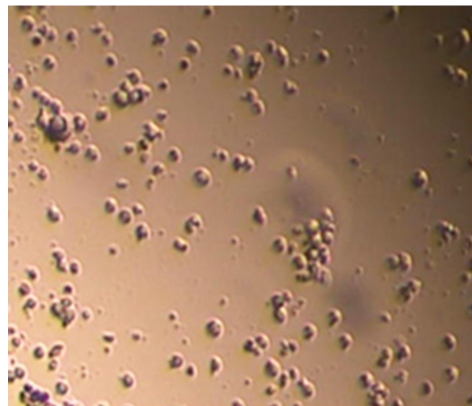
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LTVTDIFAAS KNTTEKETFC RAATVLRQFY SHHEKDTRCL GATAQQFHRH  
KQLIRFLKRL DRNLWGLAGL NSCPVKEANQ STLENFLERL KTIMREKYSK  
CSS
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[**ACTIVITY**]

As reported, IL-4 will induce the differentiation of THP-1 cells into dendritic cells and macrophages in vitro. THP-1 cells were cultured in RPMI-1640 and stimulated with 2ng/mL IL-4, after 10 days of stimulation, partial cells became larger, grew synapses, and had vesicular bodies intracellular, which showed a morphological characteristics of dendritic cells and macrophages.



A



B

Figure 1. Morphological change of THP-1 after stimulation of IL4.

(A) THP1 cultured in RPMI-1640, stimulated with IL-4; (B) THP1 cultured in RPMI-1640.

[IDENTIFICATION]

CACAGTGGATATACACCTTGGAGGAGATCATCAAACTTGGAGAGCCTCACAGAGCAGAGACTCTGTGCGAGGAGTTGAGGCTAACAGACATCTTTGCTGCTCCAGAGACACACTGAGAGGAAACCTTCAGAGGCTGGGACTGTGCTGGGAGTCTCTACAGCCACATGAGAGGACTGTC
E R C D I T L L Q E I I K T L W S L E T R Q K T L C T F E L T V T D I F A A S K N T T E R K E T F C R A A T V L R Q E V S H E E D T R I

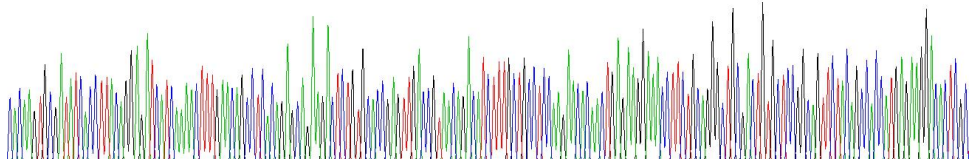


Figure 2. Gene Sequencing (extract)

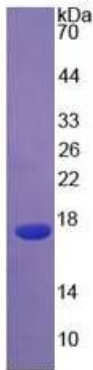


Figure 3. SDS-PAGE,

Sample: Active recombinant IL4, Human

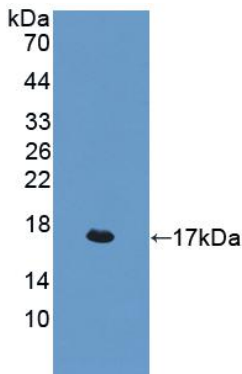


Figure 4. Western Blot,

Sample: Recombinant IL4, Human;

Antibody: Rabbit Anti-Human IL4 Ab (PAA077Hu01)



[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.