APA063Hu01 100μg
Active Interleukin 17 (IL17)
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: Ile20~Ala155
Tags: N-terminal His-tag
Purity: >98%
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: 9.0
Predicted Molecular Mass: 19.5kDa
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 2-8ºC for one month.
Aliquot and store at -80ºC 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]

I VKAGITIPRN PGCPNSEDKN FPRTVMVNLN IHNRNTNTNP KRSSDYYNRS TSPWNLHRNE DPERYPSVIW EAKCRHLGCI NADGNVDYHM NSVPIQQEIL VLRREPPHCP NSFRLEKILV SVGCTCVTPI VHHVA

[ACTIVITY]

IL17 (interleukin 17) is a member of IL17 cytokine family, which is a proinflammatory cytokine produced by activated T cells. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. It is reported that IL17 is a ligand for IL17RA, indicating its interaction with IL17RA. Thus, a binding ELISA assay was constructed to detect the association of recombinant human IL17 with recombinant human IL17RA. Briefly, IL17 were diluted serially in PBS with 0.1%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL17RA-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL17 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution , wells were incubated 15-25 minutes at 37°C. Finally, add 50μL stop solution to the wells and read at 450nm immediately. The binding activity of IL17 with IL17RA was shown in Figure 1 and this effect was in a dose dependent manner.

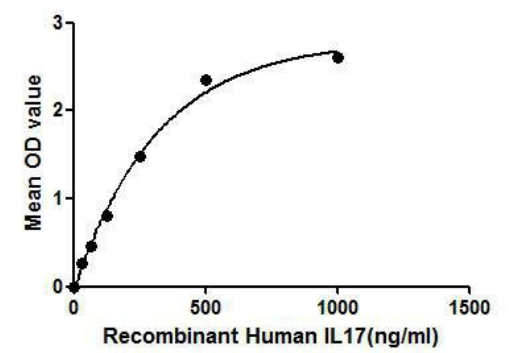

Figure 1. The binding activity of IL17 with IL17RA.

[IDENTIFICATION]

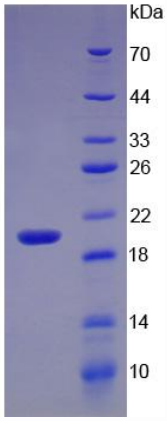

Figure 2. SDS-PAGE

Sample: Active recombinant IL17, Human

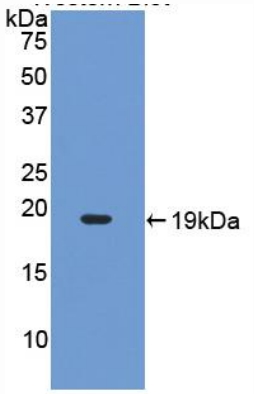

Figure 3. Western Blot

Sample: Recombinant IL17, Human;

Antibody: Rabbit Anti-Human IL17 Ab (PAA063Hu01)