

APL621Hu01 100µg
Active Interleukin 1 Family, Member 9 (IL1F9)
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: Met1~Ala162

Tags: N-terminal His-tag

Purity: >92%

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: 6.3

Predicted Molecular Mass: 19.1kDa

Accurate Molecular Mass: 19kDa 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]

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MRGTPGDADG GGRAVYQSMC KPITGTINDL NQQVWTLQGG NLVAVPRSDS  
VTPVTVAVIT CKYPEALEQG RGDPIYLGIIQ NPEMCLYCEK VGEQPTLQLK  
EQKIMDLYGQ PEPVKPFLFY RAKTGRSTL ESVAFPDWFII ASSKRDQPII  
LTSELGKSYN TA
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[ACTIVITY]

IL36G (Interleukin 36 gamma), also known as IL-1F9 and IL-1H1 is a member of the IL-1 family. The receptor for IL36 gamma is reported to be a combination of IL-1 R6/IL-1 R rp2 and IL-1 R3/IL-1 R AcP. Thus we have conducted a binding ELISA assay to detect the interaction of recombinant human IL36G with recombinant human IL1R1. Briefly, IL36G were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL1R1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL1R1 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 IL36G with IL1R1 was shown in Figure 1 and this effect was in a dose dependent manner.

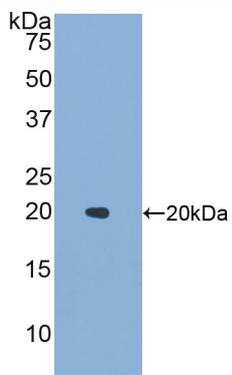


Figure 4. Western Blot

Sample: Recombinant IL1F9, Human;

Antibody: Rabbit Anti-Human IL1F9 Ab (PAL621Hu01)