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APL621Ra01 100µg Active Interleukin 1 Family, Member 9 (IL1F9) Organism Species: *Rattus norvegicus (Rat) 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: Tyr5~Gly153 Tags: N-terminal His-tag Purity: >95% Endotoxin Level: <1.0EU per 1µg (determined by the LAL method). Buffer Formulation: PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Applications: Cell culture; Activity Assays. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 7.9 Predicted Molecular Mass: 20.1kDa Accurate Molecular Mass: 20kDa as determined by SDS-PAGE reducing conditions.

[<u>USAGE</u>]

Reconstitute in 10mM PBS (pH7.4) 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.

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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]

YPHSPC TASAGKETPD LGQVSDVDQQ VWIFRDQALV TVPRSHTVTP VTVTVLPCKY PESLEQGKGT PIYLGIQNPD KCLFCKEVNG HPTLLLKEEK ILNLYHHPEP MKPFLFYHTL TGATSTFESV VFPGSFIASS KIGKPIFLTS KKG

[ACTIVITY]

IL36G (Interleukin 36 gamma), also known as IL-1F9 and IL-1H1 is a member of the IL-1 family of cytokines. This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. It has been reported that IL-1F9 can induced IL-8 production in HacaT cells. To test the bioactivity of IL-1F9, HacaT cells were seeded into 24-well plate at a density of 1x105 cells/mL, and allowed to attach overnight before treated with certain concentrations of IL-1F9 for 24h and IL-8 levels in the cell supernatant were determined by ELISA. IL-8 levels in the cell supernatant of HacaT cells increased significantly after stimulated with IL-1F9 have shown in Figure1.

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Figure1. IL-8 levels in the cell supernatant of HacaT induced by IL-1F9

[IDENTIFICATION]

	kDa 70
	44
	33
	26
	22
-	18
	14
	10

Figure 2. SDS-PAGE

Sample: Active recombinant IL1F9, Rat

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Figure 3. Western Blot Sample: Recombinant IL1F9, Rat; Antibody: Rabbit Anti- Rat IL1F9 Ab (PAL621Ra01)

[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.