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APA308Mu01 100µg Active Galectin 8 (GAL8) Organism Species: *Mus musculus (Mouse) 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: Met1~Trp316 Tags: N-terminal His-tag Purity: >98% 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: 9.3 Predicted Molecular Mass: 39.8kDa Accurate Molecular Mass: 38kDa 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]

MLSLNNLQNI IYNPIIPYVG TITEQLKPGS LIVIRGHVPK DSERFQVDFQ LGNSLKPRAD VAFHFNPRFK RSSCIVCNTL TQEKWGWEEI TYDMPFRKEK SFEIVFMVLK NKFQVAVNGR HVLLYAHRIS PEQIDTVGIY GKVNIHSIGF RFSSDLQSME TSALGLTQIN RENIQKPGKL QLSLPFEARL NASMGPGRTV VIKGEVNTNA RSFNVDLVAG KTRDIALHLN PRLNVKAFVR NSFLQDAWGE EERNITCFPF SSGMYFEMII YCDVREFKVA INGVHSLEYK HRFKDLSSID TLSVDGDIRL LDVRSW

## [ACTIVITY]

Galectin 8 (GAL8), also known as prostate carcinoma tumor antigen 1 (PCTA1) in human, is a tandem repeat-type galectin. is a member of the lectin family, of which 14 mammalian galectins have been identified. It is also a member of the beta-galactoside-binding protein family that plays an important role in cell-cell adhesion, cell-matrix interactions, macrophage activation, angiogenesis. metastasis, apoptosis. In this case, we chose rabbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for hemagglutination assay (or haemagglutination assay; HA) is as follows, two-fold dilute the recombinant Mouse GAL8 with 0.9% sodium chloride injection, add 50µL a serial dilution of GAL8 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL8, replace with 50µL 0.9% sodium chloride injection. Then add 50µL 1% rabbit erythrocyte to each well and mixed gently. The plate is incubated for 3 hours at room temperature. The results are shown in Figure 1. It was obvious that the minimal effective concentration of GAL8 is 3.1µg/mL.

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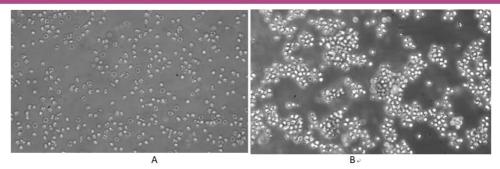


Figure 1. The hemagglutination of recombinant mouse GAL8 (A) Rabbit erythrocyte reacted without GAL8 for 3h; (B) Rabbit erythrocyte reacted with 3.1 ug/ml GAL8 for 3h.

Positive

Negative +

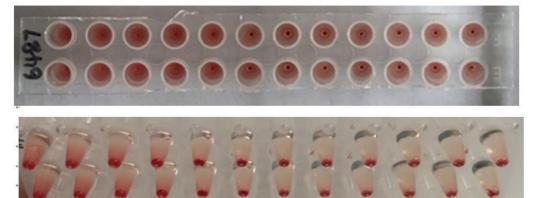
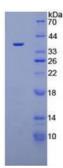


Figure 2. The hemagglutination assay of GAL8 in V- bottom shaped 96-well microtiter plate.

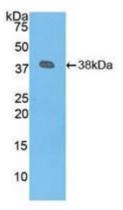
### [IDENTIFICATION]

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#### Figure 3. SDS-PAGE

Sample: Active recombinant GAL8, Mouse



#### Figure 4. Western Blot

Sample: Recombinant GAL8, Mouse;

Antibody: Rabbit Anti- Mouse GAL8 Ab (PAA308Mu01)

## [<u>IMPORTANT NOTE</u>]

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.