

APB668Mu01 10µg

Active Golgi Protein 73 (GP73)

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: Ser133~Ser379

Tags: Two N-terminal Tags, His-tag and GST-tag

Purity: >98%

Buffer Formulation: 100mM NaHCO₃, 500mM NaCl, pH8.3, containing 0.01%

sarcosyl, 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: 5.2

Predicted Molecular Mass: 57.8kDa

Accurate Molecular Mass: 58kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 100mM NaHCO₃, 500mM NaCl (pH8.3) 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]

SLQQDIFQ FQKNQTSLEK

KFSYDLNQCI SQMTEVKEQC DERIEEVIRK RNEAPGSRDL AETNNQHQQA LKPQPKLQEE VPSEEQMPQE KGDVPRNKSQ IPAPNSESLG LKPQVQNEET NEIQAVGEEH QQASIQGQAV ADGTRVGAEK LDQHTQLPAG LLARPEEDSQ YPEREQLVIR DRQEQQRASE EGGGQKNPGD EYDMDENEAE SEREKQAALA GNDRNINVLN ADAOKRGIIN VPVGSERQS

[ACTIVITY]

Golqi Protein 73 (GP73) also known as Golqi phosphoprotein 2 or Golqi membrane protein GP73 is a protein that encoded by the GOLM1 gene. The Golgi complex plays a key role in the sorting and modification of proteins exported from the endoplasmic reticulum. It has been observed to be upregulated in response to viral infection. Besides, Dymeclin (DYM) has been identified as an interactor of GP73, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse GP73 and recombinant human DYM. Briefly, GP73 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to DYM-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-GP73 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 of GP73 and DYM was shown in Figure 1, and this effect was in a dose dependent manner.

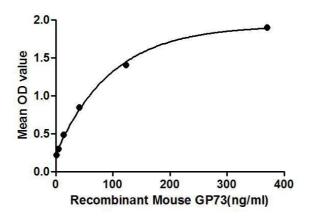


Figure 1. The binding activity of GP73 with DYM.

[IDENTIFICATION]

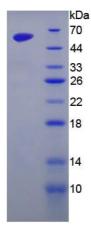


Figure 2. SDS-PAGE

Sample: Active recombinant GP73, Mouse

Cloud-Clone Corp.

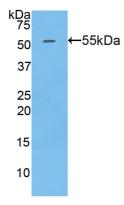


Figure 3. Western Blot

Sample: Recombinant GP73, Mouse;

Antibody: Rabbit Anti-Mouse GP73 Ab (PAB668Mu01)

[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.