Active Diacylglycerol Kinase Epsilon (DGKe) Instruction Manual

SBPE356Hu01

Homo sapiens (Human)

Buffer Formulation20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Traits Freeze-dried powder

Purity > 95% Isoelectric Point 7.7

Applications Cell culture; Activity Assays.

ACTIVITY TEST

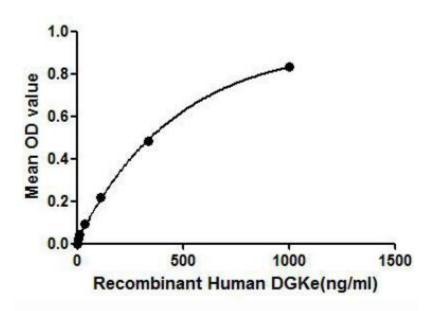


Figure 1. The binding activity of DGKe with PDHA.

DGKe (Diacylglycerol kinase epsilon) is an enzyme that mainly involved in the regeneration of phosphatidylinositol (PI) from diacylglycerol in the PI-cycle during cell signal transduction. PDHA1 (Pyruvate dehydrogenase E1 component subunit alpha) has been proven to be an interactor of DGKe through Affinity Capture-MS. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human DGKe and recombinant human PDHA. Briefly, DGKe were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL DGKe were then transferred to PDHA-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-DGKe 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 50μ L stop solution to the wells and read at 450nm immediately. The binding activity of DGKe and PDHA was shown in Figure 1, and this effect was in a dose dependent manner.

USAGE

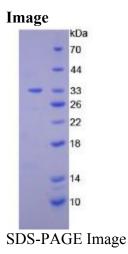
Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

STABILITY

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.



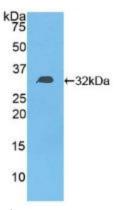


Figure. Western Blot; Sample: Recombinant DGKe, Human.

[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.