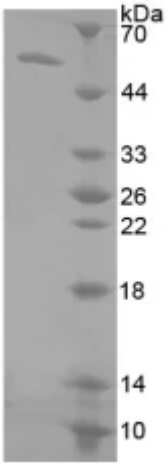
Active Thymidine Kinase 1, Soluble (TK1)

Catalog#:PEH12863

概述（Summary）

别称（Alternative Names）	TK2; Thymidine kinase, cytosolic
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ser2-Asn234】
Accession #	P04183
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	55.3 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

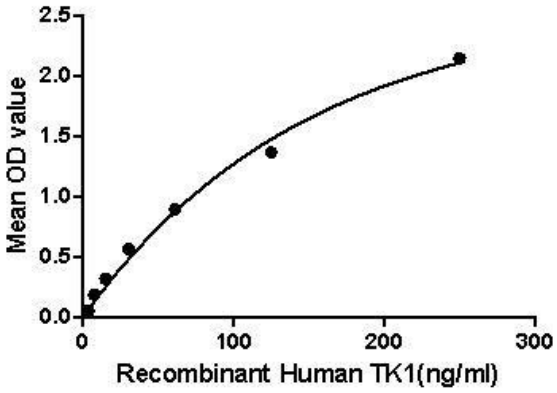


Figure. The binding activity of TK1 with GAPDH. Thymidine kinase 1 (TK1), is a human thymidine kinase. Thymidine kinase has been making a growing impact in the cancer research community. It has been found that elevated blood serum levels of TK-1 correlates with metastatic capabilities of the cancer and thereby can be used to detect malignant types of cancer, furthermore TK-1 has been found to show up in blood serum even before clinical symptoms even start to show. Besides, Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) has been identified as an interactor of TK1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TK1 and recombinant human GAPDH. Briefly, TK1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to GAPDH-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-TK1 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℃. Finally, add 50μL stop solution to the wells and read at 450nm immediately. The binding activity of TK1 and GAPDH was shown in Figure 1, and this effect was in a dose dependent manner.

注意事项（Note）

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