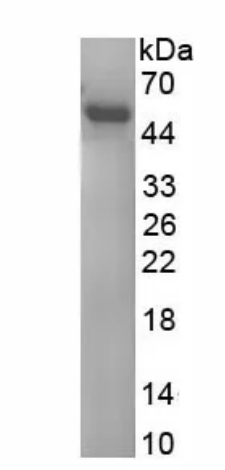
Active Uracil Phosphoribosyltransferase (UPRT)

Catalog#:PEH13003

概述（Summary）

别称（Alternative Names）	FUR1
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Asn75-Ala297】
Accession #	Q96BW1
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	54.7 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 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

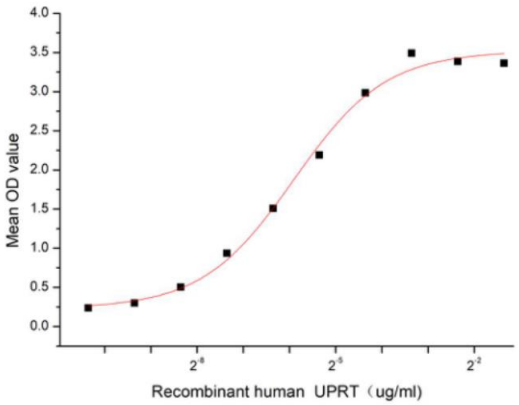


Figure 1. The binding activity of recombinant human UPRT and recombinant mouse PNP

Uracil Phosphoribosyltransferase (UPRT) is an important enzyme involved in the pyrimidine salvage pathway, which is a critical metabolic pathway for the synthesis of nucleotides in various organisms, including humans. This enzyme plays a key role in the conversion of uracil, a pyrimidine base, into uridine-5'-phosphate (UMP), a precursor for the synthesis of RNA and DNA. Besides, Purine Nucleoside Phosphorylase (PNP) has been identified as an interactor of UPRT, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human UPRT and recombinant mouse PNP. Briefly, UPRT was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to PNP-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-UPRT pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human UPRT and recombinant mouse PNP was shown in Figure 1, the EC50 for this effect is 0.017 ug/mL.

注意事项（Note）

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