

Mouse Arginase 1 protein, His tag

Cat. No. GTX00303-pro

实验应用 Functional Assay

Speciess Mouse

Package

10 µg

实验应用

应用说明

Arginase (Arg) is an enzyme that catalyzes the degradation of arginine to produce urea and ornithine, which is crucial in the urea cycle. In most mammals, two isozymes of this enzyme exist; the first, Arginase I, functions in the urea cycle, and is located primarily in the cytoplasm of the liver. The second isozyme, Arginase II, has been implicated in the regulation of the arginine/ornithine concentrations in the cell. Besides, Ubiquitin Carboxyl Terminal Hydrolase L5 (UCHL5) has been identified as an interactor of Arg, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse Arg and recombinant mouse UCHL5. Briefly, Arg were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to UCHL5-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-Arg 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 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of Arg and UCHL5 was in a dose dependent manner.

Observed MW 37 kDa.

属性

形式 Lyophilized powder

存储溶液 Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.

保存剂 ProClin 300

存放说明 For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.

Region/Sequence Full length protein, N-terminal His-Tag; Met1~Lys323 (NP_031508.1)

表达系统 E. coli

纯度 > 95%

内毒素 < 1 EU/µg

偶联 Unconjugated

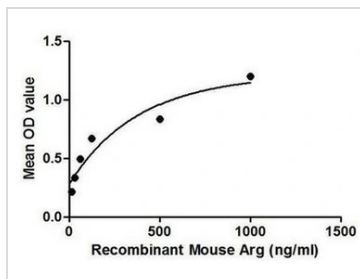
注意事项 For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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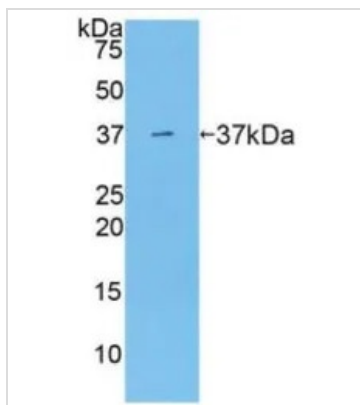
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產品圖片



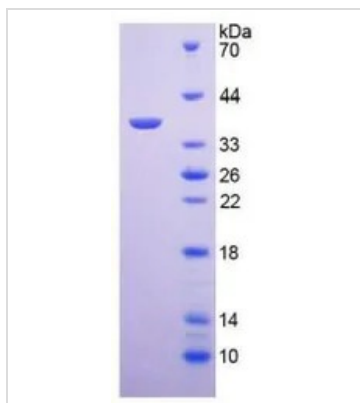
GTX00303-pro Functional Assay Image

Functional ELISA analysis of GTX00303-pro Mouse Arginase 1 protein which can bind immobilized UCHL5 protein.



GTX00303-pro Image

WB analysis of GTX00303-pro Mouse Arginase 1 protein.



GTX00303-pro Image

SDS-PAGE analysis of GTX00303-pro Mouse Arginase 1 protein.



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