

Mouse Arginase 1 protein, His tag

Cat. No. GTX00303-pro

Applications	Functional Assay	Package 10 μg
Species	Mouse	13

Applications

Application Note

Arginase (Arg) is an enzyme that catalyzes the degradation of arginine to produce urea and omithine, 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 μ l 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 μ l stop solution to the wells and read at 450nm immediately. The binding activity of of Arg and UCHL5 was in a dose dependent manner.

Observed MW (kDa) 37 kDa.

Properties		
Form	Lyophilized powder	
Buffer	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.	
Preservative	ProClin 300	
Storage	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)	
Expression System	E. coli	
Purity	> 95%	
Endotoxin	< 1 EU/µg	
Conjugation	Unconjugated	
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	

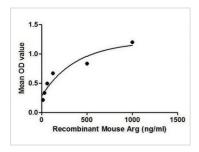


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Date 2025 / 12 / 28 Page 1 of 2

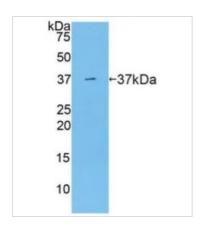


DATA IMAGES



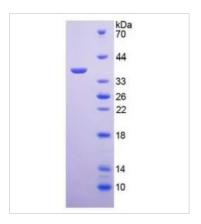
GTX00303-pro Functional Assay Image

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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Date 2025 / 12 / 28 Page 2 of 2