

Human Arginase 1 protein, His tag

Cat. No. GTX00168-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

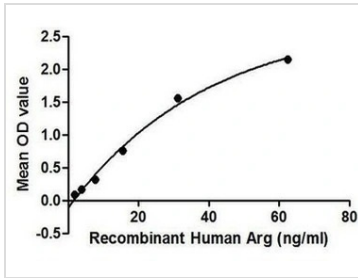
Arginase (Arg) is an enzyme that catalyzes the degradation of arginine to produce urea and ornithine, which is crucial in the urea cycle. In most mammals, two isozymes of this enzyme exist; the first, Arginase I, functions in the urea cycle, and is located primarily in the cytoplasm of the liver. The 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 human Arg and recombinant human 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 (kDa) 37 kDa.

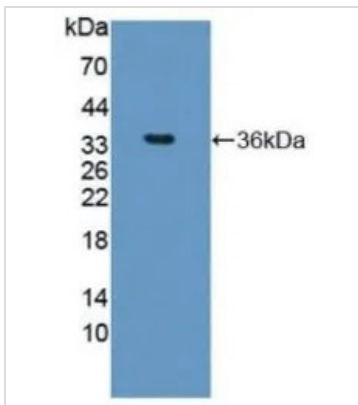
Properties

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~Lys322 (NP_000036.2)**Expression System** E. coli**Purity** > 97%**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.

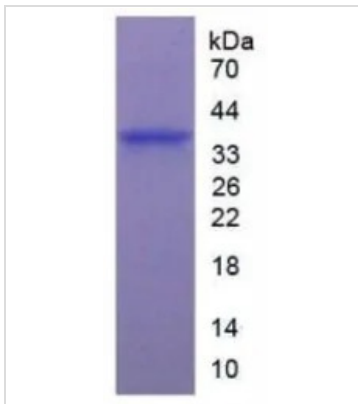
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DATA IMAGES

GTx00168-pro Functional Assay Image

Functional ELISA analysis of GTx00168-pro Human Arginase 1 protein which can bind immobilized UCHL5 protein.


GTx00168-pro Image

WB analysis of GTx00168-pro Human Arginase 1 protein.


GTx00168-pro Image

SDS-PAGE analysis of GTx00168-pro Human Arginase 1 protein.



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