

Human PON3 protein, His tag

Cat. No. GTX00164-pro

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

10 µg

Applications

Application Note

Paraoxonase 3 (PON3) is secreted into the bloodstream and associates with high-density lipoprotein (HDL). PON3 also rapidly hydrolyzes lactones and can inhibit the oxidation of low-density lipoprotein, a function that is believed to slow the initiation and progression of atherosclerosis. Besides, Paraoxonase 1 (PON1) has been identified as an interactor of PON3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PON3 and recombinant human PON1. Briefly, PON3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to PON1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PON3 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 of PON3 and PON1 was in a dose dependent manner.

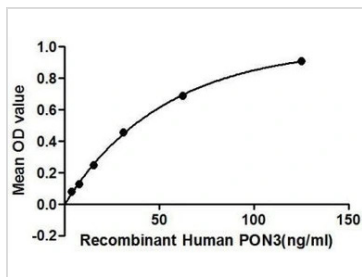
Observed MW (kDa) 43 kDa.

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** N-terminal His-Tag; Gly2~Leu354 (NP_000931.1)**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.

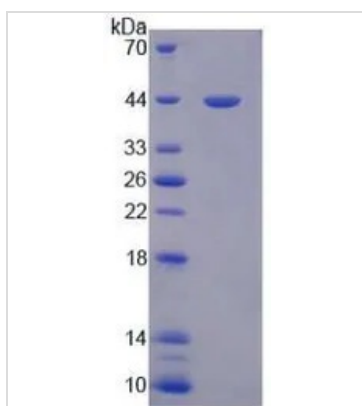
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DATA IMAGES



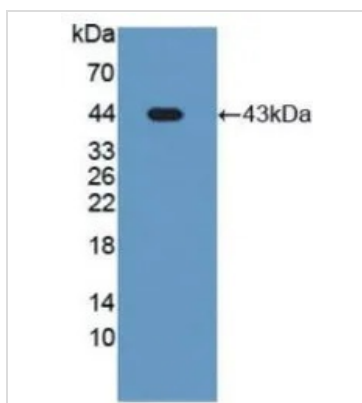
GTX00164-pro Functional Assay Image

Functional ELISA analysis of GTX00164-pro Human PON3 protein which can bind immobilized PON1 protein.



GTX00164-pro Image

SDS-PAGE analysis of GTX00164-pro Human PON3 protein.



GTX00164-pro Image

WB analysis of GTX00164-pro Human PON3 protein.



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