

Active Recombinant Human PON2 protein, His-tagged

Cat. No. PON2-2606H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human PON2 protein(Q15165)(1-354 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-354 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Paraoxonase 2 which is a member of the paraoxonase family also known as arylesterase 2. PON2 is exclusively intracellularly found, wherein it functions as an anti-oxidative protein by reducing intracellular and local oxidative stress. This protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Besides, ATPase, H⁺ Transporting, Lysosomal Accessory Protein 2 (ATP6AP2) has been identified as an interactor of PON2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PON2 and recombinant human ATP6AP2. Briefly, PON2 were diluted serially in PBS, with 0.01% BSA (pH7.4). Duplicate samples of 100uL were then transferred to ATP6AP2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PON2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary

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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 50μl stop solution to the wells and read at 450nm immediately. The binding activity of PON2 and ATP6AP2 was shown, and this effect was in a dose dependent manner.

Molecular Mass 43.1kDa

Purity > 97%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name PON2 paraoxonase 2 [Homo sapiens]

Official Symbol PON2

Synonyms PON2; paraoxonase 2; serum paraoxonase/arylesterase 2; paraoxonase nirs; PON 2; A-esterase 2; aromatic esterase 2; serum arylalkylphosphatase 2;

Gene ID 5445

mRNA Refseq NM_000305

Protein Refseq NP_000296

MIM 602447

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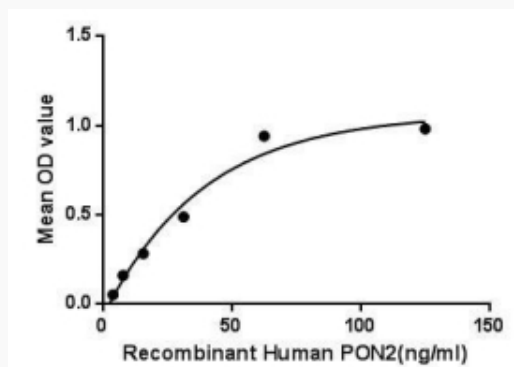
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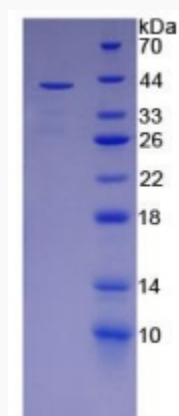
UniProt ID

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Activity



SDS-PAGE



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