

# Mouse Serum paraoxonase/arylesterase 2 (PON2) ELISA Kit

Catalog No: #EK8390

Package Size: #EK8390-1 48T #EK8390-2 96T

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## Description

Product Name	Mouse Serum paraoxonase/arylesterase 2 (PON2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	A-esterase 2 aromatic esterase 2 paraoxonase nirs serum aryldialkylphosphatase 2 serum paraoxonase/arylesterase 2
Accession No.	Q62086
Uniprot	Q62086
GeneID	330260;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.781-50 ng/mL

Sensitivity:0.27 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PON2 in samples. An antibody specific for PON2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPON2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PON2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PON2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Serum paraoxonase/arylesterase 2 is a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress.

Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes. Alternatively spliced transcript variants encoding different isoforms have been described.

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Note: This product is for in vitro research use only