Human Paraoxonase 3 (PON3) ELISA Kit

Catalog No: #EK8389

Package Size: #EK8389-1 48T #EK8389-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Paraoxonase 3 (PON3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Paraoxanase-3|serum paraoxonase/lactonase 3
Accession No.	Q15166
Uniprot	Q15166
GeneID	5446;
Storage	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. 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).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.052 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 PON3 in samples. An antibody specific for PON3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPON3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PON3 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 PON3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Members of the paraoxonase (EC 3.1.1.2) gene family, such as PON3, encode high density lipoprotein (HDL)-related glycoproteins with multienzymatic properties. (Lu et al., 2006).Lu et al. (2006) cloned PON3 from a fetal liver cDNA library. The deduced mature protein has 354 amino acids and a calculated molecular mass of 39.6 kD. It contains 3 cysteines that are conserved in PON1 and PON2. Cys41 and cys351 are predicted to form an intramolecular disulfide bond, and cys283 is predicted to be involved in antioxidant activity. Using nondenaturing PAGE, Draganov et al. (2005) observed native recombinant PON3 at an apparent molecular mass of 94.9 kD, suggesting that it probably forms dimers. Glycosidase treatment of human serum PON3 suggested that the secreted form of PON3 contains complex carbohydrates.

Note: This product is for in vitro research use only