## Rat Advanced oxidation protein products (AOPP) ELISA Kit

Catalog No: #EK11949

Description

Package Size: #EK11949-1 48T #EK11949-2 96T



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Description				
Product Name	Rat Advanced oxidation protein products (AOPP) ELISA Kit			
Brief Description	ELISA Kit			
Applications	ELISA			
Species Reactivity	Rat (Rattus norvegicus)			
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:Request Information				
Sensitivity:Request Information				
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 AOPP in samples. An antibody specific for AOPP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAOPP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AOPP 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 AOPP bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:AOPP are carried by oxidized plasma proteins, especially albumin and do not have oxidant properties. AOPP increased in a dose-dependent manner following in vitro exposure of plasma or purified human serum albumin (HSA) to hypochlorous acid. Advanced glycation end products of human serum albumin (AGE-HSA) also increased AOPP levels. In vivo, plasma level of AOPP was the highest in patients on hemodialysis, followed by those on peritoneal dialysis and by undialyzed patients with advanced chronic renal failure. AOPP levels correlated with plasma concentrations of dityrosine and AGE-pentosidine, as indices of oxidant-mediated protein damage, but not with thiobarbituric reactive substances as lipid peroxidation markers. A close correlation was also found between AOPP and neopterin levels, suggesting that AOPP could be part in the monocyte-mediated inflammatory disorders associated with uremia.

Note: This product is for in vitro research use only