

Rat Pentraxin 3 (PTX3) ELISA Kit

Catalog No: #EK11394



Package Size: #EK11394-1 48T #EK11394-2 96T

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Description

Product Name	Rat Pentraxin 3 (PTX3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
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:78.1-5000 pg/mL

Sensitivity:30 pg/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 PTX3 in samples. An antibody specific for PTX3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTX3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTX3 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 PTX3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PTX3 bound selected pathogens, including *Aspergillus fumigatus*, *Pseudomonas aeruginosa*, and *Salmonella typhimurium*. PTX3 bound to either viable or heat-inactivated conidia, but not the hyphae, of *A. fumigatus*, and Ptx3 facilitated conidia interaction with mononuclear phagocytes. Conidia rapidly induced PTX3 production in human and mouse monocytes and dendritic cells, but not in neutrophils, fibroblasts, or endothelial or epithelial cells. Infection of mice and humans with *A. fumigatus* induced high levels of PTX3 in plasma and bronchoalveolar lavage fluid. Significant levels of PTX3 were detected in plasma of neutropenic patients with systemic *A. fumigatus* infection, but only low levels were found in control subjects.

Note: This product is for in vitro research use only