

## Rat Toll-like receptor 3 (TLR3) ELISA Kit

Catalog No: #EK6501



Package Size: #EK6501-1 48T #EK6501-2 96T

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## Description

Product Name	Rat Toll-like receptor 3 (TLR3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Accession No.	O15455
Uniprot	O15455
GeneID	7098;
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:0.625-40 ng/mL

Sensitivity:0.262 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:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate TLR3 in samples. An antibody specific for TLR3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTLR3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TLR3 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 TLR3 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**TLR 3 is a member of the Toll-like receptor family of pattern recognition receptors of the innate immune system. Discovered in 2001,TLR3 recognizes double-stranded RNA, a form of genetic information carried by some viruses such as reoviruses. Upon recognition, TLR 3 induces the activation of NF-κB to increase production of type I interferons which signal other cells to increase their antiviral defenses.

Double-stranded RNA is also recognised by the cytoplasmic receptors RIG-I and MDA-5.The structure of TLR3 was reported in June 2005 by researchers at The Scripps Research Institute. TLR3 forms a large horseshoe shape that contacts with a neighboring horseshoe, forming a "dimer" of two horseshoes.

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Note: This product is for in vitro research use only