Datasheet for ABIN1672829

TLR3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	TLR3
Binding Specificity:	AA 27-711
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TLR3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: K27-S711
Specificity:	Expression system for standard: NSO,K27-S711
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	TLR3
Alternative Name:	TLR3 (TLR3 Products)
Background:	Protein Function: Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR3 is a nucleotide-sensing TLR which is activated by double-stranded RNA, a sign of viral infection. Acts via the adapter TRIF/TICAM1, leading to NF-kappa-B activation, IRF3 nuclear translocation, cytokine secretion and the inflammatory response. . Background: Toll-like receptor 3(TLR3) also known as CD283(cluster of differentiation 283) is a protein that in humans is encoded by the TLR3 gene. The TLR3 gene was mapped to chromosome 4q35 by fluorescence in situ hybridization. TLR3 specifically recognizes double-stranded RNA(dsRNA) and induces multiple intracellular events responsible for innate antiviral immunity against a number of viral infections. Synonyms: Toll-like receptor 3,CD283,TLR3, Full Gene Name: Toll-like receptor 3 Cellular Localisation: Endoplasmic reticulum membrane, Single-pass type I membrane protein. Endosome membrane.
Gene ID:	7098
UniProt:	E6Y0F1
Pathways:	TLR Signaling, Activation of Innate immune Response, Hepatitis C, Toll-Like Receptors Cascades

Application Details

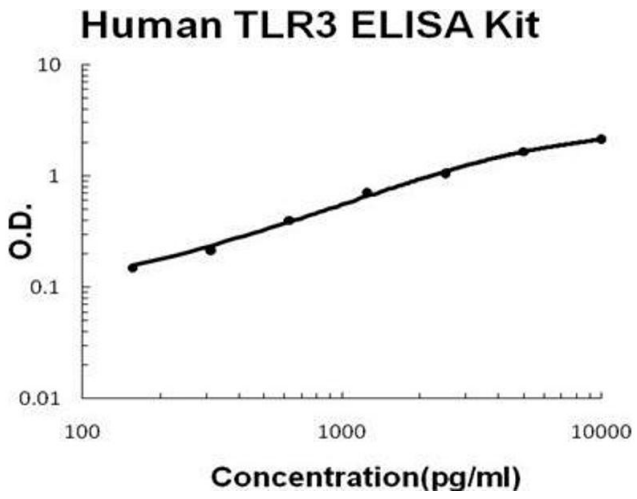
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the Toll-like receptor family. Tissue Specificity: Expressed at high level in placenta and pancreas. Also detected in CD11c+ immature dendritic cells. Only expressed in dendritic cells and not in other leukocytes, including

Application Details

	monocyte precursors. TLR3 is the TLR that is expressed most strongly in the brain, especially in astrocytes, glia, and neurons. .
Plate:	Pre-coated
Protocol:	human TLR3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TLR3 has been precoated onto 96-well plates. Standards (NSO,K27-S711) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TLR3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human TLR3 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human TLR3 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TLR3 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 824, Standard deviation: 37.08, CV(%): 4.5 • Sample 2: n=16, Mean(pg/ml): 2625, Standard deviation: 147, CV(%): 5.6 • Sample 3: n=16, Mean(pg/ml): 5720, Standard deviation: 366.1, CV(%): 6.4, • Sample 1: n=24, Mean(pg/ml): 987, Standard deviation: 53.3, CV(%): 5.4 • Sample 2: n=24, Mean(pg/ml): 3013, Standard deviation: 213.9, CV(%): 7.1 • Sample 3: n=24, Mean(pg/ml): 6325, Standard deviation: 493.3, CV(%): 7.8
Restrictions:	For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human TLR3 PicoKine ELISA Kit standard curve

