

## Human Toll-like receptor 9 ELISA Kit | TLR9 elisa kit

Human Toll-like receptor 9 ELISA Kit

CATALOG #  
**AAA99414**

REACTIVITY  
**Human**

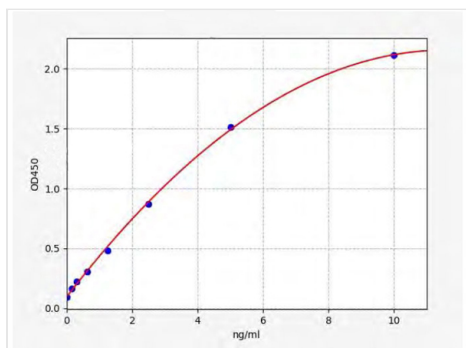
### PRODUCT SYNONYMS

Toll-like receptor 9; Human Toll-like receptor 9 ELISA Kit; TLR9/CD289 (Toll-like receptor 9)/CD289 antigen; TLR9 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                        |
| Specificity             | Specifically recognize TLR9, no obvious cross reaction with other analogues                                                                                  |
| Sequence Length         | 1032                                                                                                                                                         |
| Assay Type              | Sandwich                                                                                                                                                     |
| Samples                 | Serum, plasma, cell culture supernatant and other biological samples                                                                                         |
| Detection Range         | 0.156-10ng/ml                                                                                                                                                |
| Sensitivity             | 0.094ng/ml                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.                                                    |
| Inter-assay Precision   | Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.                                        |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Related Product Information for TLR9 elisa kit | <p>Background: Toll like receptor 9 (TLR9) has been considered as a crucial intracellular pattern recognition receptor in the immune system, which can directly or indirectly mediate innate and adaptive immune responses by recognizing CpG DNA in endosomes to initiate its downstream signaling. Diseases associated with TLR9 include Cervicitis and Malaria. Among its related pathways are MyD88 dependent cascade initiated on endosome and Insulin receptor signalling cascade.</p> <p>Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti TLR9 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti TLR9 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with TLR9 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of TLR9 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|----------------------|
| NCBI GI #                        | 8394456              |
| NCBI GeneID                      | 54106                |
| NCBI Accession #                 | NP_059138.1          |
| NCBI GenBank Nucleotide #        | NM_017442.3          |
| Molecular Weight                 | 114,237 Da           |
| NCBI Official Full Name          | toll-like receptor 9 |
| NCBI Official Synonym Full Names | toll like receptor 9 |
| NCBI Official Symbol             | TLR9                 |
| NCBI Official Synonym Symbols    | CD289                |
| NCBI Protein Information         | toll-like receptor 9 |
| UniProt Protein Name             | Toll-like receptor 9 |
| UniProt Gene Name                | TLR9                 |
| UniProt Entry Name               | TLR9_HUMAN           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tlr9-human-elisa-kits/toll-like-receptor-9/99414>