

# TLR4 Antibody HRP Conjugated

Catalog No: #C00655H

Package Size: #C00655H 100ul

## Description

|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Product Name          | TLR4 Antibody HRP Conjugated                                                    |
| Host Species          | Rabbit                                                                          |
| Clonality             | Polyclonal                                                                      |
| Isotype               | IgG                                                                             |
| Purification          | Purified by Protein A.                                                          |
| Applications          | IHC-P IHC-F                                                                     |
| Species Reactivity    | Hu Ms Rt                                                                        |
| Immunogen Description | KLH conjugated synthetic peptide aa 780-830 835 derived from rat TLR4           |
| Conjugates            | HRP                                                                             |
| Target Name           | TLR4                                                                            |
| Other Names           | Lps; Ly87; Ran M1; Rasi2-8; Toll-like receptor 4; CD284; Tlr4                   |
| Accession No.         | Swiss-Prot#Q9QUK6NCBI Gene ID21898                                              |
| Cell Localization     | Cytoplasm                                                                       |
| Concentration         | 1mg ml                                                                          |
| Formulation           | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.                |
| Storage               | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |

## Application Details

IHC-P=1:50-200 IHC-F=1:50-200

## Background

Cooperates with LY96 and CD14 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MYD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Also involved in LPS-independent inflammatory responses triggered by free fatty acids, such as palmitate. In complex with TLR6, promotes sterile inflammation in monocytes macrophages in response to oxidized low-density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signal is provided by oxLDL- or amyloid-beta 42-binding to CD36. This event induces the formation of a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory response, leading to the NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.