



Anti-human TLR1 Antibody

ORDERING INFORMATION

Catalog Number: AF1484

Lot Number: IRM01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human TLR1

Immunogen: NS0-derived rhTLR1 extracellular domain

Ig Type: human TLR1 extracellular domain specific goat IgG

Applications: Direct ELISA
Western blot
Flow cytometry

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Toll-like receptor 1 (rhTLR1) extracellular domain. Human TLR1 specific IgG was purified by human TLR1 affinity chromatography. TLR1 belongs to the IL-1 receptor/Toll-like receptor superfamily. It is ubiquitously expressed and can heterodimerize with TLR2 to form the signaling receptor for bacterial lipopeptides.¹

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Endotoxin Level

< 0.01 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human TLR1 in direct ELISAs and western blots. In these formats, this antibody shows approximately 15% cross-reactivity with rmTLR1 and less than 5% cross-reactivity with rhTLR3, rhTLR4 and rmTLR6.

Applications

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human TLR1. The detection limit for rhTLR1 is approximately 0.3 ng/well.

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human TLR1. The detection limit for rhTLR1 is approximately 2 ng/lane under non-reducing and reducing conditions.

Flow cytometry - This antibody can be used at 3 - 10 µg/mL/10⁶ cells with an appropriate secondary antibody for indirect immunofluorescence staining of cells by flow cytometry.

Optimal dilutions should be determined by each laboratory for each application.

Reference:

1. Dunne, A. and L.A. O'Neill, 2003, SciSTKE 171:re3.

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