



## *Anti-mouse TLR1 Antibody*

### ORDERING INFORMATION

**Catalog Number:** AF1475

**Lot Number:** IQZ01

**Size:** 100 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse TLR1 extracellular domain

**Immunogen:** NS0-derived rmTLR1 extracellular domain

**Ig Type:** goat IgG

**Applications:** Western blot  
Flow cytometry  
Direct ELISA

### *Preparation*

Produced in goats immunized with purified, NS0-derived, recombinant mouse Toll-like receptor 1 (rmTLR1) extracellular domain. Mouse TLR1 specific IgG was purified by mouse TLR1 affinity chromatography. TLR1 belongs to the IL-1 receptor/Toll-like receptor superfamily. These receptors function as pattern recognition receptors for pathogen associated molecular patterns and are implicated in vertebrate immunity.

### *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 mouse TLR1 in the applications listed below. In direct ELISAs and western blots, this antibody shows approximately 30% cross-reactivity with rmTLR6, 5% cross-reactivity with rhTLR1 and rmTLR2 and less than 2% cross-reactivity with rhTLR3 and rhTLR4.

### *Applications*

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse TLR1. The detection limit for rmTLR1 is approximately 0.5 ng/lane under non-reducing and reducing conditions.

**Flow cytometry** - This antibody can be used at 3 - 10 µg/mL/10<sup>6</sup> cells with an appropriate secondary antibody for indirect immunofluorescence staining of cells by flow cytometry.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse TLR1. The detection limit for rmTLR1 is approximately 0.15 ng/well.

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