

PE anti-Mouse CD284 (TLR4) mAb

Catalog No.: A25679

Basic Information

Observed MW

Refer to figures

Calculated MW

95kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Mouse

CloneNo number

ATC0028

Conjugate

PE. Ex:565nm. Em:574nm.

Recommended Dilutions

FC The suggested use of this reagent is $\leq 0.25 \mu\text{g}$ per 10^6 cells in 100 μl volume.

Background

This gene belongs to the evolutionarily-conserved Toll-like receptor family, whose members are type-1 transmembrane proteins that are involved in innate immunity. Toll-like receptors are characterized by an extracellular leucine-rich repeat domain that functions in ligand recognition and an intracellular toll/interleukin-1 receptor-like domain that is crucial for signal transduction. The receptor encoded by this gene mediates the innate immune response to bacterial lipopolysaccharide, a major component of the outer membrane of Gram-negative bacteria, through synthesis of pro-inflammatory cytokines and chemokines. In addition, this protein can recognize other pathogens from Gram-negative and Gram-positive bacteria as well as viral components. Mice deficient in this gene display a number of immune response-related phenotypes including hyporesponsiveness to bacterial lipopolysaccharide and increased levels of respiratory syncytial virus compared to controls.

Immunogen Information

Gene ID

21898

Swiss Prot

Q9QUK6

Immunogen

LPS-stimulated TLR4/MD-2/CD14 cotransfected NKR cells.

Synonyms

Lps; Ly87; Ran/M1; Rasl2-8

Contact

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Product Information

Source

Rat

IsotypeRat IgG2a, κ **Purification**

Affinity purification

Storage

Store at 4°C. Avoid freeze / thaw cycles.

Buffer: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide