



PRODUCT DATA SHEET

Product: Anti-TLR4 mAb, clone HTA125

Cat. No.: MC-516 (100 µg)

Synonyms:

Toll-like Receptor 4, CD284

Background:

Toll-like receptors (TLR) are highly conserved throughout evolution and have been implicated in the innate defense to many pathogens. In *Drosophila*, Toll is required for the anti-fungal response, while the related 18-wheeler is involved in antibacterial defenses. In mammals, TLR identified as type I transmembrane signaling receptors with pattern recognition capabilities have been implicated in the innate host defense to pathogens. Toll-like receptor 4 (TLR4) has been identified next to MD-2 and CD14 as a receptor that is central to the innate immune response to lipopolysaccharides of Gram-negative bacteria.

Specificity:

Recognizes human TLR4 cell surface antigen.

Species Reactivity:

Human. Others not tested.

Ig Isotype:

Mouse IgG_{2a}

Immunogen:

Ba/F3 cell line expressing Toll-like receptor 4 (TLR4).

Format:

100 µg of purified antibody at 1 mg/mL in PBS, preservative free. ≥95% purity by SDS-PAGE

Storage:

Store at -20°C, long term. Aliquot to avoid freeze/thaw cycles.

Applications:

- Flow cytometry: Incubate at 37°C (1:10-1:100) and then on ice with GAM-FITC.
- Immunoprecipitation
- Functional application: Blocks activation of monocytes with LPS.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.