

## TLR4

### Mouse Anti-Human Toll-like Receptor 4 Clone HTA125 mAb

**Catalog No.** MON4033 **Quantity:** 1 ml

**Alternate Names:** ARMD10, CD284, TOLL, hToll, homolog of Drosophila toll

**Description:** 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. TLR4 (CD284) has been identified next to MD-2 and CD14 as a receptor that is central to the innate immune response to lipopolysaccharides (LPS) of Gram-negative bacteria. The HTA125 monoclonal antibody reacts preferentially, especially in flow cytometry, with human TLR4 (CD284) that is associated with MD-2. HTA125 is a TLR4 (CD284) function-blocking antibody that is useful for studies on the role of TLR4 (CD284) as a receptor for LPS induced cytokine production by TLR4 bearing cells. The antibody was shown to precipitate TLR4 (100 kDa). The antibody HTA125 is cross reactive with canine, cynomolgus monkey, rhesus monkey and marmoset monkey.

**Gene ID:** 7099

**Host:** Mouse

**Isotype:** IgG2a

**Clone:** HTA125

**Formulation:** 1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% BSA. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

**Applications:** The antibody can be used for flow cytometry, immuno precipitation and immunohistology on frozen sections. Furthermore the antibody can be used as antagonist for TLR4, it blocks LPS-induced cytokine production.

**Storage & Stability:** Product should be store at 4°C. Under recommended storage conditions, product should be stable for one year.

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