

## Product datasheet for **TA320484**

### TLR4 Mouse Monoclonal Antibody [Clone ID: HTA125]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	HTA125
Applications:	FC
Recommended Dilution:	Flow, IHC, Functional Assay, IP
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	toll like receptor 4
Database Link:	<a href="#">NP_003257</a> <a href="#">Entrez Gene 7099 Human</a> <a href="#">O00206</a>



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**Background:**

The HTA125 monoclonal antibody reacts with human Toll-like receptor 4 (TLR4). So far, at least ten members of the Toll family have been identified in humans. This family of type I transmembrane proteins is characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. Two of these receptors, TLR2 and TLR4, are pattern recognition receptors and signaling molecules in response to bacterial lipoproteins and have been implicated in innate immunity and inflammation. TLR4 physically associates with another molecule called MD-2, and together with CD14, this complex is responsible for LPS recognition and signaling. TLR4 is expressed by peripheral blood monocytes. HTA125 has been reported to immunoprecipitate human TLR4 (~100 kDa) from transfected cells. Most TLR cell surface expression, especially TLR1 and TLR4, occurs at low levels on monocytes and at even lower levels on other cell types including granulocytes and immature dendritic cells (iDC). Furthermore, a relatively high degree of variability in TLR surface expression has been reported among normal donors.

**Synonyms:**

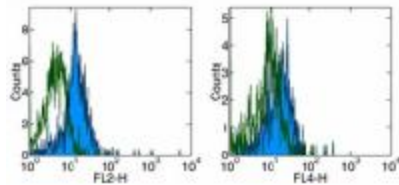
ARMD10; CD284; TLR-4; TOLL

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway

**Product images:**

Surface staining of normal human peripheral blood cells with Anti-Human CD284 (TLR4) PE (left), and Anti-Human CD284 (TLR4) APC (right). Appropriate isotype controls were used (open histogram). Cells in the monocyte population were used for analysis.