

CD284 (TLR4) Monoclonal Antibody (HTA125), Super Bright 436, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 Tests |
| Species Reactivity | Human |
| Host/Isotope | Mouse / IgG2a, kappa |
| Recommended Isotype Control | Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright 436, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | HTA125 |
| Conjugate | Super Bright 436 |
| Form | Liquid |
| Concentration | 5 µl/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage Conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2744816 |

| Applications | Tested | Dilution | Published |
|-----------------------|--------|--------------------|-----------|
| Flow Cytometry (Flow) | ✓ | 5 µL (0.5 µg)/test | |

Product Specific Information

Description: 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.

Applications Reported: This HTA125 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HTA125 antibody has been pre-diluted and tested by flow cytometric analysis of human TLR4/MD2-transfected cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

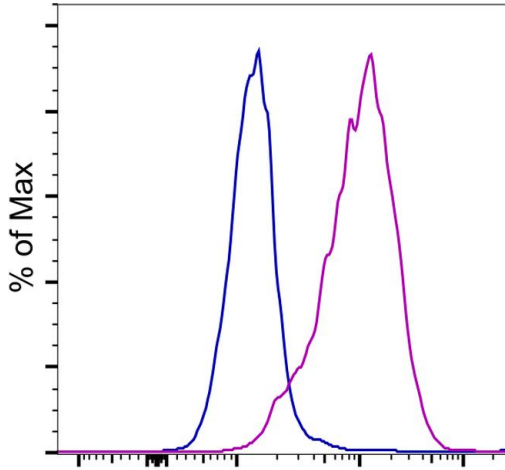
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD284 (TLR4) Monoclonal Antibody (HTA125), Super Bright 436, eBioscience™



CD284 (TLR4) Antibody (62-9917-42) in Flow

Human TLR4/MD2-transfected cells were stained with Mouse IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4724-82) (blue histogram) or CD284 Monoclonal Antibody, Super Bright 436 (purple histogram). Viable cells were used for analysis.

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