

## Human TLR4-FITC

Mouse monoclonal antibody to Human TLR4-FITC

Catalog Number **SM1677F**

- Specificity:** This antibody recognises the human Toll like receptor 4 (TLR4) cell surface antigen. TLR4 has been demonstrated to act as alpha receptor for LPS on human monocytes and macrophages. TLR4 signalling of LPS stimulation requires the presence of the MD-2 molecule. TLR4 is weakly expressed by resting cells, but is upregulated following stimulation with LPS. This antibody has been demonstrated to block activation of monocytes with LPS.
- Immunogen:** Ba/F3 cell line expressing TLR4.
- Host:** Mouse
- Clone Name:** HTA125
- Isotype:** IgG2a
- Uses and Dilutions:** Flow cytometry: use 10 ul of neat antibody to label 10(6) cells of 100 ul whole blood. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
- Form:** This antibody is supplied as 0.1 mg of liquid, Protein G affinity purified immunoglobulin fraction, conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) in PBS buffer with 0.1% sodium azide as preservative and 1% Bovine Serum Albumin (BSA) as stabilizer.
- Concentration:** 0.1 mg/ml
- Storage:** Store the antibody at negative 20 degrees Celcius. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from dispatch.
- Limitations:** This product is for research use only and is not approved for use in humans or in clinical diagnosis.
- Product References:**
1. Shimazu, R. et al. MD-2, a molscular that confers lipopolysaccharide responsiveness on Toll like receptor 4. J. Exp. Med. 189:1777, 1999.
  2. Jiang, Q. et al. Cutting edge: lipopolysaccharide induces physical proximity between CD14 and Toll like receptor 4 (TLR4) prior to nuclear translocation of NF-kappa B.J. Immunol. 165:3541-3544, 2000.