Product datasheet

Anti-CD14 antibody [MEM-15] (FITC) ab28061

Overview

Product name          Anti-CD14 antibody [MEM-15] (FITC)
Description           Mouse monoclonal [MEM-15] to CD14 (FITC)
Host species          Mouse
Conjugation           FITC. Ex: 493nm, Em: 528nm
Specificity           Ab28061 recognises CD14 expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages. Ab28061 also recognises soluble forms of CD14 found in serum and in the urine of some nephrotic patients.

Tested applications   Suitable for: Flow Cyt
Species reactivity    Reacts with: Human
Immunogen             Full length native protein (purified): A crude mixture of human urinary proteins precipitated by ammonium sulphate from the urine of a patient suffering from proteinuria.

General notes         The antibody is free of unconjugated FITC.

Properties

Form                  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C.
Storage buffer        Preservative: 0.097% Sodium azide
                                     Constituent: 0.2% BSA
                                     High grade protease free BSA
Purity                Protein A purified
Clonality             Monoclonal
Clone number          MEM-15
Isotype               IgG1

Applications

Our Abpromise guarantee covers the use of ab28061 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**

Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.

**Tissue specificity**

Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

**Sequence similarities**

Contains 11 LRR (leucine-rich) repeats.

**Post-translational modifications**

N- and O- glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan.

**Cellular localization**

Cell membrane.

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**Application** | **Abreviews** | **Notes**
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Flow Cyt | ⭐⭐⭐⭐⭐ | Use 20µl for $10^6$ cells. or 100 µl of whole blood.

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**Target**

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**Images**

Flow cytometry analysis of human peripheral blood cells labelling CD14 with ab28061.
ab28061 staining CD14 in peripheral blood mononuclear cells by flow cytometry. The fibroblasts were prepared using 10 uL FITC antiCD14 to 50 uL (~100,000) cells in PBS/5%FCS and incubated on ice for 45 min. Cells were gated on viable cells.

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