Datasheet: MCA1568T

### Product Details

**Description:** MOUSE ANTI HUMAN CD14  
**Specificity:** CD14  
**Format:** Purified  
**Product Type:** Monoclonal Antibody  
**Clone:** TÜK4  
**Isotype:** IgG2a  
**Quantity:** 25 µg

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td></td>
<td></td>
<td>1/50 - 1/200</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

### Target Species

**Target Species:** Human

### Species Cross Reactivity

Reacts with: Dog, Goat, Cat, Rabbit, Mink, Bovine, Pig, Sheep, Cynomolgus monkey, Llama  
**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

**Product Form:** Purified IgG - liquid

### Preparation

**Preparation:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

### Buffer Solution

**Buffer Solution:** Phosphate buffered saline

### Preservative Stabilisers

**Preservative Stabilisers:** 0.09% Sodium Azide

### Carrier Free

**Carrier Free:** Yes

### Approx. Protein Concentrations

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml
Mouse anti human CD14 antibody, clone TÜK4 recognizes the human CD14 cell surface antigen. CD14 is a ~55 kDa glycoprotein that contains multiple leucine-rich repeats. It is anchored to the cell membrane via a glycosylphosphatidylinositol (GPI) linkage (Simmons et al. 1989), a soluble form of CD14 also exists (Bazil et al. 1986).

CD14 is strongly expressed on the surface of monocytes and macrophages and has also been shown to be expressed on the surface of non-myeloid cells (Jersmann 2005). CD14 functions as a pattern recognition receptor (Pugin et al. 1994, Dziarski et al. 1998) in innate immunity for a variety of ligands, in particular for the LPS (endotoxin) of Gram-negative bacteria.

Mouse anti human CD14 antibody, clone TÜK4 has been shown to block SDF-induced chemotaxis of U937 cells in a dose –dependent manner (Yang et al. 2003). Use of the anti-human CD14 antibody, Low Endotoxin format is recommended for this purpose.

Flow Cytometry
Use 5ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.

References


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**Further Reading**


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**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

18 months from date of despatch.
Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) \textit{Alk. Phos., HRP}
Goat Anti Mouse IgG (STAR77...) \textit{HRP}
Rabbit Anti Mouse IgG (STAR12...) \textit{RPE}
Rabbit Anti Mouse IgG (STAR8...) \textit{DyLight®800}
Rabbit Anti Mouse IgG (STAR13...) \textit{HRP}
Goat Anti Mouse IgG (STAR76...) \textit{RPE}
Goat Anti Mouse IgG (STAR70...) \textit{FITC}
Goat Anti Mouse IgG (Fc) (STAR120...) \textit{FITC, HRP}
Rabbit Anti Mouse IgG (STAR9...) \textit{FITC}
Human Anti Mouse IgG2a (HCA037...) \textit{FITC, HRP}
Goat Anti Mouse IgG (H/L) (STAR117...) \textit{Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP}

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)