

## CD14 (M5E2)

### Analyte Specific Reagent (ASR)\*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
APC	50	5	250	4074042
	100	5	500	4074045
FITC	50	5	250	4074012
	100	5	500	4074015
iFluor™488	50	5	250	4074112
	100	5	500	4074115

❖ iFluor is a trademark of AAT Bioquest, Inc.

<b>Antigen:</b>	CD14
<b>Immunogen:</b>	Full-length human CD14 protein
<b>Host/Isotype:</b>	Mouse, IgG2a,κ
<b>Reactivity:</b>	Human, Rhesus, Cynomolgus
<b>Purity:</b>	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
<b>Formulation:</b>	PBS, pH7.2, 0.09% NaN <sub>3</sub> and 0.2% (w/v) BSA
<b>Storage:</b>	Store at 2-8°C and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Applications:</b>	Flow Cytometry.

### Antigen Information

The clone M5E2, a mouse monoclonal antibody, specifically recognizes a human 53-55 kDa glycosylphosphatidylinositol (GPI)-anchored single chain cell surface antigen known as CD14. The expression of CD14 is commonly observed on monocytes, interfollicular macrophages, reticular dendritic cells and some Langerhans cells. M5E2 binds with a complex of LPS and lipopolysaccharide binding protein, and blockade of CD14 with monoclonal antibodies prevented the synthesis of TNF-alpha by LPS activated leukocytes. M5E2 has cross-reactivity with various species including non-human rhesus macaques.

### References

1. Antal-Szalmas P, et al. 1997. *Leukoc Biol.* 61:721.
2. Bate C, et al. 2005. *J Neuroimmunol.* 170:62.
3. Detmers PA, et al. 1998. *J Immunol.* 161:1921.
4. Power, C.P, et al. 2004. *J Immunol.* 173:5229.
5. Wright SD et al. 1990, *Science.* 249:1431-3.
6. Autissier et al. 2010. *J. Immunol. Methods.* 360:119-128.

\*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.