

## CD14 (M5E2)

Type	Size	Catalog number
Unconjugated	100µg	107401
	500µg	107403
FITC	25 tests	107414
	100 tests	107415
	200 tests	107416
iFluor™ 488	25 tests	1074114
	100 tests	1074115
	200 tests	1074116

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

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### Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance. Non-human primate cross-reactivity has been validated using Caprico's FITC conjugated M5E2 product.

### Antigen Information

Clone M5E2 reacts with a nonfunctional domain of human CD14, a 53-55 kDa glycosylphosphatidylinositol (GPI)-anchored and single chain glycoprotein expressed at high levels on monocytes. Additionally, the CD14 antibody reacts with monocytes, interfollicular macrophages, reticular dendritic cells and some Langerhans cells. CD14 binds with a complex of LPS and lipopolysaccharide binding protein, and blockade of CD14 with monoclonal antibodies prevented synthesis of TNF-alpha by whole blood incubated with LPS. 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.

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**Terms and Conditions**

This product is for research use only (RUO) and not intended for diagnostic testing.