

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 ₃ (unconjugated) PBS, pH7.2, 0.09% NaN ₃ 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.

Caprico Biotechnologies, 400 Pinnacle Way, Suite 430, Norcross, GA 30071
 Phone: +1 (678) 691-2143 Technical Support Ext 102, Fax: (678) 691-2223
 Email: techsupport@capricobio.com
www.CapricoBio.com

Terms and Conditions

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