

Datasheet: MCA6393F

Description:	MOUSE ANTI HORSE CD14:FITC
Specificity:	CD14
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	105
lsotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been derived from testing w communications from information. For gener rad-antibodies.com/pro	eer-reviewed publica refer to references in	s indicated for further				
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-			Neat - 1/2		
	Where this product ha necessarily exclude its a guide only. It is reco system using appropri	s use in such mmended tha	procedure t the user	es. Suggested workir titrates the product	ng dilutions are given as		
Target Species	Horse						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml						
Immunogen	Recombinant equine (CD14.					

External Database Links	UniProt: <u>Q9TTT3</u> <u>Related reagents</u>				
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the X3.Ag8-653 myeloma cell line.				
Specificity	Mouse anti Horse CD14 antibody, clone 105 recognizes horse CD14.				
	CD14 is a GPI-anchored membrane glycoprotein and monocyte/macrophage differentiation antigen. CD14 belongs to the lipopolysaccharide receptor family and is weakly expressed on microglia and Langerhans cells. CD14 acts as a receptor for the potent bacterial endotoxin, lipopolysaccharide (LPS), facilitated by LPS-binding protein (LBP). The binding of LPS to CD14 results in cell activation and the release of cytokines and the inflammatory response, and has been shown to upregulate the cell surface expression of adhesion molecules.				
	Mouse anti Horse CD14 antibody, clone 105, will detect approx. 7.7% of horse PBMC (<u>Kabithe <i>et al</i>. 2010</u>).				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul				
References	 Perkins, G.A. <i>et al.</i> (2014) Maternal T-lymphocytes in equine colostrum express a primarily inflammatory phenotype. <u>Vet Immunol Immunopathol. 161 (3-4): 141-50.</u> Ziegler, A. <i>et al.</i> (2016) Equine dendritic cells generated with horse serum have enhanced functionality in comparison to dendritic cells generated with fetal bovine serum. <u>BMC Vet Res. 12 (1): 254.</u> Larson, E.M. <i>et al.</i> (2020) Phenotype and function of IgE-binding monocytes in equine Culicoides hypersensitivity. <u>PLoS One. 15 (5): e0233537.</u> Raza, F. <i>et al.</i> (2021) Peripheral blood basophils are the main source for early interleukin-4 secretion upon in vitro stimulation with Culicoides allergen in allergic horses. <u>PLoS One. 16 (5): e0252243.</u> Tukia, E. <i>et al.</i> (2021) The Effect of Uterine Lavage on Soluble CD14, Chemokine Ligand 2, and Interleukin 10 Levels in Mares With Postpartum Metritis. <u>J Equine Vet Sci.</u> <u>98: 103365.</u> Gressler, A.E. <i>et al.</i> (2022) Comprehensive Flow Cytometric Characterization of Bronchoalveolar Lavage Cells Indicates Comparable Phenotypes Between Asthmatic and Healthy Horses But Functional Lymphocyte Differences. <u>Front Immunol. 13: 896255.</u> 				
Further Reading	1. Kabithe, E. <i>et al.</i> (2010) Monoclonal antibodies to equine CD14. <u>Vet Immunol</u> Immunopathol. 138 (1-2): 149-53.				
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.				
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.				

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