

Datasheet: MCA6393GA

Description:	MOUSE ANTI HORSE CD14
Specificity:	CD14
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	105
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/200

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Horse
Product Form	Purified IgG - liquid
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)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant equine CD14.

**External Database
Links**

UniProt:

[Q9TTT3](#)

[Related reagents](#)

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 ([Kabithé et al. 2010](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

References

1. Perkins, G.A. *et al.* (2014) Maternal T-lymphocytes in equine colostrum express a primarily inflammatory phenotype. [Vet Immunol Immunopathol. 161 \(3-4\): 141-50.](#)
2. Ziegler, A. *et al.* (2016) Equine dendritic cells generated with horse serum have enhanced functionality in comparison to dendritic cells generated with fetal bovine serum. [BMC Vet Res. 12 \(1\): 254.](#)
3. Larson, E.M. *et al.* (2020) Phenotype and function of IgE-binding monocytes in equine *Culicoides* hypersensitivity. [PLoS One. 15 \(5\): e0233537.](#)
4. Raza, F. *et al.* (2021) Peripheral blood basophils are the main source for early interleukin-4 secretion upon in vitro stimulation with *Culicoides* allergen in allergic horses. [PLoS One. 16 \(5\): e0252243.](#)
5. Tukia, E. *et al.* (2021) The Effect of Uterine Lavage on Soluble CD14, Chemokine Ligand 2, and Interleukin 10 Levels in Mares With Postpartum Metritis. [J Equine Vet Sci. 98: 103365.](#)
6. Gressler, A.E. *et al.* (2022) Comprehensive Flow Cytometric Characterization of Bronchoalveolar Lavage Cells Indicates Comparable Phenotypes Between Asthmatic and Healthy Horses But Functional Lymphocyte Differences. [Front Immunol. 13: 896255.](#)

Further Reading

1. Kabithé, E. *et al.* (2010) Monoclonal antibodies to equine CD14. [Vet Immunol 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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6393GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M406141:220920'

Printed on 21 Feb 2024