

Datasheet: MCA5638KZZ

BATCH NUMBER 151768

Description:	BOVINE INTERFERON GAMMA ELISA KIT
Name:	IFN GAMMA
Format:	Kit
Product Type:	Kits
Quantity:	5 x 96 WELLS

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 <u>www.bio-rad-antibodies.com/protocols</u> .						
	ELISA						
	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	Bovine						
External Database Links	UniProt: P07353 Related reagents Entrez Gene: 281237 IFNG Related reagents						
Product Information	The Bovine Interferon Gamma Kit is specific for bovine in a secreted cytokine involved in anti-viral activity and growth type II interferon family. IFN-gamma is produced by lymphocytes in response to act mitogens. In addition to its anti-viral activity, IFN-gamma ha functions in the activation of macrophages and anti-prolifera cells.	n regulation belonging to the ivation by specific antigens or is important immunoregulatory					
Test Principle	This assay is based on a sandwich ELISA using two different IFN-gamma monoclonal antibodies and a recombinant bov						

Intended Use	Bovine Interferon gamma ELISA KIt (MCA5638KZZ) is an ELISA kit (5 x 96 wells) designed for the quantitive determination of bovine interferon gamma (BoIFN-gamma) in bovine serum, plasma and culture supernatant.
	This assay can measure BoIFN-gamma in the range 0.025-50 ng/ml in bovine serum, plasma and culture supernatant. Detailed instructions for use of the kit can be found <u>here</u> .
Reagents In The Kit	96 well microtiter plates x 5 Microplate adhesive sealers x 5 Coating antibody - 1vial (MCA5638KZZA) Coating Buffer - 1 vial (5 x concentrated) Detection antibody – Biotin conjugated - 1 vial (MCA5638KZZC) Streptavidin:HRP conjugate - 1 vial (MCA5638KZZD) TMB Substrate 1 vial Bovine IFN gamma standard (400ng/ml – Lyophilized) 1 vial (MCA5638KZZB)
Additional Reagents Required	The following additional reagents and Equipment are also required for successful use of this kits BUT ARE NOT CONTAINED WITHIN THIS KIT Wash buffer (available from Bio-Rad, <u>BUF031A</u> , or see kit insert for recipe) Blocking solution (available from Bio-Rad, Catalogue Code: <u>BUF032A</u> , or see kit insert for recipe) Stop Solution (see kit insert for recipe) Distilled or Deionised water Plate reader with 450nm reading capacity Pipettes for dispensing up to 250ul Tubes for preparing standard and sample dilutions.
Instructions For Use	Instructions for use can be found at <u>www.bio-rad-antibodies.com/uploads</u> /IFU/MCA5638KZZ.pdf
References	 Doherty, R. <i>et al.</i> (2013) Epigenetic regulation of the innate immune response to LPS in bovine peripheral blood mononuclear cells (PBMC) <u>Vet Immunol Immunopathol. Aug</u> <u>15:154: 102-10.</u> Redondo, E. <i>et al.</i> (2014) Induction of Interleukin-8 and Interleukin-12 in Neonatal Ovine Lung Following Experimental Inoculation of Bovine Respiratory Syncytial Virus. <u>J</u> <u>Comp Pathol. 150: 434-48.</u> Truong, T. <i>et al.</i> (2014) Peste des petits ruminants virus tissue tropism and pathogenesis in sheep and goats following experimental infection. <u>PLoS One. 9: e87145.</u> Blodörn, K. <i>et al.</i> (2015) A bovine respiratory syncytial virus model with high clinical expression in calves with specific passive immunity. <u>BMC Vet Res. 11: 76.</u> Blodörn, K. <i>et al.</i> (2014) Vaccine safety and efficacy evaluation of a recombinant bovine respiratory syncytial virus (BRSV) with deletion of the SH gene and subunit vaccines based on recombinant human RSV proteins: N-nanorings, P and M2-1, in calves with maternal antibodies. <u>PLoS One. 9 (6): e100392.</u> Beechler, B.R. <i>et al.</i> (2017) Host immunity, nutrition and coinfection alter longitudinal infection patterns of schistosomes in a free ranging African buffalo population. <u>PLoS Negl</u>

		<u>Trop Dis. 11 (12): e00</u>	<u>Trop Dis. 11 (12): e0006122.</u>					
		7. Shaw, A.E. et al. (2017) Fundamental properties of the mammalian innate immune						
			ultispecies comparison	of type I interf	feron responses. <u>PLoS Biol. 15</u>			
		<u>(12): e2004086.</u>						
		· · · · ·	,	· · · · · ·	, Interleukin 10 (IL-10) and			
			, ,		panosomosis in Nigeria <u>Open</u>			
			Journal of Veterinary Medicine. 06 (07): 105-111.					
		9. Kolb, E.A. <i>et al.</i> (2019) Protection against bovine respiratory syncytial virus in calves vaccinated with adjuvanted modified live vaccine administered in the face of maternal						
		antibody. <u>Vaccine. Oct 24 [Epub ahead of print].</u>						
		-			d-Mouth Disease Vaccines Adjuvants. <u>Vaccines (Basel).9</u>			
Storage		Prior to use store all kit components at +4°C. DO NOT FREEZE. Please view the handbook for further details.						
		Storage in frost free fr	eezers is not recommer	ded. This Kit	contains components that are			
		photosensitive and sh	ould be protected from I	ight. Avoid re	peated freezing and thawing as			
		this may denature con	this may denature components within this kit.					
		The contents of this kit should be stored undiluted. Should components within this kit						
		contain a precipitate we recommend microcentrifugation before use.						
Guarantee 12 months from date of despatch								
	And Safety	Material Safety Datasheet documentation #10383 #10111 #10226 #10040 #10299						
Information available at:								
			vw.bio-rad-antibodies.com/SDS/MCA5638KZZ					
		_	ELISA Coating Buffer (10383)					
		TMB Substrate (10111) Streptsvidin Conjugated Product (10226)						
		Streptavidin Conjugated Product (10226) Antibody (10040)						
		Protein (10299)						
Regulate	ory	This kit and its comp	oonents are Research	Use Only. No	ot for Therapeutic or			
		Diagnostic use.						
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To find a	batch/lot spec	ific datasheet for this produ	ict, please use our online a 'M375789:210108'	search tool at:	bio-rad-antibodies.com/datasheets			
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