

Datasheet: MCA2412

Description:	MOUSE ANTI CHICKEN INTERFERON ALPHA
Specificity:	IFN ALPHA
Other names:	INTERFERON ALPHA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	UMCh3-IFNa
Isotype:	IgG1
Quantity:	0.5 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			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

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

Target Species	Chicken
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Recombinant chicken Interferon alpha.
External Database Links	<p>UniProt: P42165 Related reagents</p> <p>Entrez Gene: 396398 IFNA3 Related reagents</p>
RRID	AB_2122226
Specificity	<p>Mouse anti Chicken interferon alpha antibody, clone UMCh3-IFNa recognizes chicken Interferon alpha (chIFN-alpha).</p> <p>The classification of mammalian cytokines with antiviral activity, is well documented as being either Type I Interferon (IFN1) or Type II Interferon (IFN2). This is not the case for avian IFNs however, even though IFN was first detected in the chicken.</p> <p>There are similarities between chicken IFN and mammalian IFN1 with conservation of cysteine residues and the existence of around ten closely related intron-less IFN alpha genes (Staeheli et al. 2001). Chicken IFN-alpha genes are strongly expressed following viral infection of monocyte-derived macrophage and embryo fibroblasts and that chicken IFN acts as a potent antiviral agent (Marcus et al. 1999).</p> <p>Mouse anti Chicken interferon alpha antibody, clone UMCh3-IFNa does not cross react with IFN beta or IFN gamma and does not neutralize chIFN-alpha.</p>
Western Blotting	MCA2412 detects a band of approximately 19 kDa.
References	<ol style="list-style-type: none"> Sarmiento, L. <i>et al.</i> (2008) Differential host gene expression in cells infected with highly pathogenic H5N1 avian influenza viruses. Vet Immunol Immunopathol. 125 (3-4): 291-302. Prescott, M.A. <i>et al.</i> (2024) An alternative strategy to increasing influenza virus replication for vaccine production in chicken embryo fibroblast (DF-1) cells by inhibiting interferon alpha and beta using peptide-conjugated phosphorodiamidate morpholino oligomers. J Med Microbiol. 73 (2) [Epub ahead of print].
Further Reading	<ol style="list-style-type: none"> Sick, C. <i>et al.</i> (1996) A family of genes coding for two serologically distinct chicken interferons. J Biol Chem. 271 (13): 7635-9. Staeheli, P. <i>et al.</i> (2001) Cytokines of birds: conserved functions--a largely different look. J Interferon Cytokine Res. 21 (12): 993-1010. Schwarz, H. <i>et al.</i> (2004) Synthesis of IFN-beta by virus-infected chicken embryo cells demonstrated with specific antisera and a new bioassay. J Interferon Cytokine Res. 24 (3): 179-84.
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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2412 10040
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Regulatory	For research purposes only
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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](https://www.bio-rad-antibodies.com/datasheets)

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Printed on 19 Feb 2024