

Datasheet: MCA2822

BATCH NUMBER 155625

Description:	MOUSE ANTI NEWCASTLE DISEASE VIRUS
Specificity:	NEWCASTLE DISEASE VIRUS
Other names:	NDV
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	8H2
Isotype:	IgG2a
Quantity:	0.2 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			▪	
Immunoassay			▪	

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	Viral
Product Form	Purified IgG- liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Glycoprotein haemagglutinin-neuraminidase of Newcastle Disease Virus (La-Sota strain).

RRID AB_1102796

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.

Specificity **Mouse anti Newcastle Disease Virus antibody, clone 8H2** recognizes the hemagglutinin-neuraminidase (HN) protein of Newcastle disease virus (NDV). Newcastle disease is a highly contagious disease affecting wild and domestic birds.

Symptoms of the disease vary greatly, depending on the strain of virus and the species, age and health of the bird. Virulence of the disease can also vary greatly, with some strains causing very high mortality rates. In humans, NDV can cause mild influenza-like symptoms.

The HN protein of the virus is a type II membrane glycoprotein on virion and infected cell surfaces. It binds to sialic acid-containing cellular receptors and promotes activity of the viral fusion protein, thereby allowing the virus to penetrate the cell. It also removes sialic acids from progeny virus particles to prevent viral self-agglutination.

Newcastle disease virus is tumor selective and oncolytic. It has shown promise for selective growth in and killing of a variety of tumor cells.

References

1. Lorence, R.M. *et al.* (2007) Phase 1 clinical experience using intravenous administration of PV701, an oncolytic Newcastle disease virus. [Curr Cancer Drug Targets. 7 \(2\): 157-67.](#)
2. Huang, Z. *et al.* (2003) Recombinant Newcastle disease virus as a vaccine vector. [Poult Sci. 82 \(6\): 899-906.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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/MCA2822>
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 (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

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