

Datasheet: MCA2822

**BATCH NUMBER 157644**

<b>Description:</b>	MOUSE ANTI NEWCASTLE DISEASE VIRUS
<b>Specificity:</b>	NEWCASTLE DISEASE VIRUS
<b>Other names:</b>	NDV
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	8H2
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.

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

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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

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**RRID** AB\_1102796

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

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**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.

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**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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

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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://bio-rad-antibodies.com/datasheets)

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