

## Datasheet: 5315-0064

<b>Description:</b>	GOAT ANTI INFLUENZA A H1N1
<b>Specificity:</b>	INFLUENZA A H1N1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## 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			▪	
Western Blotting			▪	
Immunofluorescence	▪			
Haemagglutination	▪			

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 the appropriate negative/positive controls.

<b>Target Species</b>	Viral
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Influenza A, strain USSR (H1N1)

### Specificity

**Goat anti Influenza A H1N1 polyclonal antibody** is specific for Influenza A virus H1N1 by Haemagglutination inhibition.

This goat anti Influenza A H1N1 polyclonal antibody does not react with Influenza B, RSV, Para 1-3 or Adenovirus. It does not react with [HEp-2](#) cells but may react with some chicken cellular proteins.

Influenza type A viruses are divided into subtypes based on the antigenic differences of two viral surface proteins, hemagglutinin (H) and neuraminidase (N). On infection of the respiratory tract, the hemagglutinin molecule binds to sialic acid-containing receptors on the epithelial cells resulting in endocytosis. Once the virus has been engulfed, the hemagglutinin allows the viral membrane to fuse with the endosomal membrane. Neuraminidase functions to aid viral release from host cells by cleaving terminal sialic acid residues from carbohydrate moieties on the cell surface. Viral release also requires the interaction of the viral M1 protein with the cellular scaffold G-like protein [RACK1](#) (Demirov *et al.* 2012).

Subtype antigenic variations result from a process known as antigenic drift whereby these surface proteins constantly mutate in order to evade the host immune response. Subtype A(H1N1) was the cause of [Spanish flu pandemic](#) that killed approximately 50,000,000 people between 1918-1919.

---

## References

1. Demirov, D. *et al.* (2012) Interaction of influenza A virus matrix protein with RACK1 is required for virus release. [Cell Microbiol. 14: 774-89.](#)
2. Zielecki, F. *et al.* (2010) Virulence determinants of avian H5N1 influenza A virus in mammalian and avian hosts: The role of the C-terminal ESEV motif in the viral NS1 protein. [J Virol. 117: 439 - 48](#)
3. Kash JC *et al.* (2011) Lethal synergism of 2009 pandemic H1N1 influenza virus and *Streptococcus pneumoniae* coinfection is associated with loss of murine lung repair responses. [MBio. 2\(5\). pii: e00172-11.](#)
4. Meunier, I. and von Messling, V. (2012) PB1-F2 Modulates Early Host Responses but Does not Affect the Pathogenesis of H1N1 Seasonal Influenza Virus. [J Virol. 86: 4271-8.](#)
5. Nicol, M.Q. *et al.* (2012) A novel family of peptides with potent activity against influenza A viruses. [J Gen Virol. 93: 980-6.](#)
6. Weinheimer, V.K. *et al.* (2012) Influenza A viruses target type II pneumocytes in the human lung. [J Infect Dis. 206: 1685-94.](#)
7. Weinheimer, V.K. *et al.* (2012) Influenza A viruses target type II pneumocytes in the human lung. [J Infect Dis. 206 \(11\): 1685-94.](#)
8. Kalfass, C. *et al.* (2013) Visualizing the beta interferon response in mice during infection with influenza A viruses expressing or lacking nonstructural protein 1. [J Virol. 87 \(12\): 6925-30.](#)
9. Schliehe, C. *et al.* (2015) The methyltransferase Setdb2 mediates virus-induced susceptibility to bacterial superinfection. [Nat Immunol. 16 \(1\): 67-74.](#)

---

## 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.

---

## Shelf Life

18 months from date of despatch.

---

## Health And Safety Information

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

---

## Regulatory

For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

'M318371:180718'

**Printed on 01 Aug 2018**

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)