

## Datasheet: 7950-0304

<b>Description:</b>	GOAT ANTI RESPIRATORY SYNCYTIAL VIRUS:HRP
<b>Specificity:</b>	RESPIRATORY SYNCYTIAL VIRUS
<b>Other names:</b>	RSV
<b>Format:</b>	HRP
<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
Immunohistology - Frozen	▪			1/20 - 1/200
Immunohistology - Paraffin	▪			
ELISA	▪			1/200 - 1/1000
Western Blotting			▪	
Immunofluorescence	▪			1/20 - 1/200

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 conjugated to Horseradish Peroxidase (HRP) - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.002% Thiomersal
<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	1.0 mg/ml
<b>Immunogen</b>	Human RSV isolate.

**Specificity**

**Goat anti respiratory syncytial virus polyclonal antibody** recognizes respiratory syncytial virus (RSV) a negative-sense, single-stranded RNA virus and member of the *Paramyxoviridae* family. RSV causes respiratory tract infections in patients of all ages, but particularly affects infants and the immunosuppressed.

RSV encodes three envelope glycoproteins, a small hydrophobic (SH) protein of unknown function, a glycoprotein (G) known as the attachment protein, and a fusion (F) protein. The F protein directs fusion of viral and cellular membranes, resulting in viral penetration, and can lead to the formation of syncytia.

The F protein is thought to be the principal antigen responsible for inducing an immune response.

Goat anti respiratory syncytial virus does not react with Parainfluenza 1-3, Influenza A and B, Adenovirus or uninfected HEp-2 or WI-38 cells. Goat anti respiratory syncytial virus polyclonal antibody is neutralizing and reacts well with bovine isolates.

**References**

1. Culley, F.J. *et al.* (2006) Role of CCL5 (RANTES) in viral lung disease. [J Virol. 80: 8151-7.](#)
2. Numata, M. *et al.* (2010) Pulmonary surfactant phosphatidylglycerol inhibits respiratory syncytial virus-induced inflammation and infection. [Proc Natl Acad Sci U S A. 107: 320-5.](#)
3. Roux, X. *et al.* (2008) Sub-nucleocapsid nanoparticles: a nasal vaccine against respiratory syncytial virus. [PLoS One. 3: e1766.](#)
4. Olszewska, W. *et al.* (2011) Antiviral and lung protective activity of a novel RSV fusion inhibitor in a mouse model. [Eur Respir J. 38: 401-8.](#)
5. Fonseca AM *et al.* (2012) Primary airway epithelial cultures from children are highly permissive to respiratory syncytial virus infection. [Thorax. 67 \(1\): 42-8.](#)
6. Ryzhakov, G. *et al.* (2011) IL-17 Boosts Proinflammatory Outcome of Antiviral Response in Human Cells. [J Immunol. 187: 5357-62.](#)
7. Fricke J *et al.* (2013) p38 and OGT sequestration into viral inclusion bodies in cells infected with human respiratory syncytial virus suppresses MK2 activities and stress granule assembly. [J Virol. 87 \(3\): 1333-47.](#)
8. Kipper, S. *et al.* (2015) New host factors important for respiratory syncytial virus (RSV) replication revealed by a novel microfluidics screen for interactors of matrix (M) protein. [Mol Cell Proteomics. 14 \(3\): 532-43.](#)
9. Russell, R.F. *et al.* (2015) Partial Attenuation of Respiratory Syncytial Virus with a Deletion of a Small Hydrophobic Gene Is Associated with Elevated Interleukin-1 $\beta$  Responses. [J Virol. 89 \(17\): 8974-81.](#)
10. Currie, S.M. *et al.* (2016) Cathelicidins Have Direct Antiviral Activity against Respiratory Syncytial Virus *In Vitro* and Protective Function *In Vivo* in Mice and Humans. [J Immunol. 196 \(6\): 2699-710.](#)
11. Kinnear, E. *et al.* (2017) Airway T cells protect against RSV infection in the absence of antibody. [Mucosal Immunol. May 24. \[Epub ahead of print\]](#)
12. Bajimaya, S. *et al.* (2017) Cholesterol is required for stability and infectivity of influenza A and respiratory syncytial viruses. [Virology. 510: 234-41.](#)

13. Choi, E.J. *et al.* (2018) Exchange Proteins Directly Activated by cAMP and Their Roles in Respiratory Syncytial Virus Infection. [J Virol. Sep 05 \[Epub ahead of print\].](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10095 available at: <https://www.bio-rad-antibodies.com/SDS/7950-0304>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

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[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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