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### Certificate of Analysis and Data Sheet

## MOUSE ANTI RESPIRATORY SYNCYTIAL VIRUS MAJOR GLYCOPROTEIN

With HRP-conjugated secondary antibody

**Catalog No.**  
DS-MB-02223

**Species:**  
Virus

**Isotype:**  
Mouse IgG2b

### Description

Respiratory Syncytial Virus (RSV) is a major cause of respiratory illness in children who have not received the vaccine or treatment. Respiratory Syncytial Virus is a negative sense, enveloped, RNA virus. The virion has an average diameter between 120 and 300 nm. The fusion protein of the RSV 2 strain (subtype A) directs fusion of viral and cellular membranes, results in viral penetration, and can form syncytia or multi-nucleated giant cells. The matrix protein plays a role in viral assembly and has been observed to traffic into and out of the nucleus at specific times during the respiratory infectious cycle. The matrix protein has also been shown to be able to inhibit transcription, which may be a key to respiratory pathogenesis.

### Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			
Western Blotting			•	
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Preparation

Immunogen was purified RSV. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein G affinity chromatography.

### Specificity

DS-MB-02223 is specific for the major glycoprotein of Respiratory Syncytial virus (RSV). RSV is a 100-350 nm enveloped virus belonging to the Paramyxoviridae, genus, Pneumovirus, that causes minor respiratory infections in adults and bronchitis and bronchopneumonia in children. Its genome consists of single stranded, negative sense RNA that 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.

### Reconstitution

Supplied as 200 µg of purified antibody. It is reconstituted with 200 µl of sterile PBS. Its final concentration is 1.0 mg/ml. **Please avoid freeze-thaw cycles.**

### Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

### Storage

Store at -20°C, if not intended for use within a month. Keep it at 4°C and minimize freezing and thawing when use.

### References

- Belshe, R.B., Newman, F.K., Anderson, E.L., Wright, P.F., Karron, R.A., Tollefson, S., Henderson, F.W., Meissner, H.C., Madhi, S., Robertson, D., Marshall, H., Loh, R., Sly, P., Murphy, B., Tatem, J.M., Randolph, V., Hackell, J., Gruber, W. and Tsai, T.F. 2004. Evaluation of combined live, attenuated Respiratory Syncytial Virus and parainfluenza 3 virus vaccines in infants and young children. *J. Infect. Dis.* 190: 2096-2103.
- Sastre, P., Melero, J.A., García-Barreno, B. and Palomo, C. 2004. Comparison of antibodies directed against human Respiratory Syncytial Virus antigens present in two commercial preparations of human immunoglobulins with different neutralizing activities. *Vaccine* 23: 435-443.

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