

Datasheet: 2470-5416

**BATCH NUMBER 171591**

<b>Description:</b>	MOUSE ANTI CYTOMEGALOVIRUS gB LATE CYTOPLASMIC ANTIGEN
<b>Specificity:</b>	CYTOMEGALOVIRUS gB LATE CYTOPLASMIC ANTIGEN
<b>Other names:</b>	CMV
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	hCMV34
<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
Immunohistology - Frozen (1)	▪			
ELISA	▪			
Immunofluorescence	▪			0.02 µg/slide - 1 µg/slide

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.

**(1) Reactive only in acetone fixed CMV infected cells or frozen sections.**

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

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Native cytomeglaovirus extracts from infected human cells..
<b>Specificity</b>	<p><b>Mouse anti Cytomegalovirus gB Late Cytoplasmic Antigen antibody, clone hCMV34</b> detects cytomegalovirus glycoprotein B late cytoplasmic antigen. Cytomegalovirus is an enveloped double stranded DNA virus which in humans (HCMV) is commonly known as human herpesvirus 5 (HHV-5).</p> <p>Glycoprotein B (gB) is the main antigenic protein within the envelope of HCMV. It is required for HCMV mediated membrane fusion along with the gH / gL complex. The unprocessed precursor of HCMV gB is 906 amino acids in length, with a MW of approximately 100kDa.</p> <p>Mouse anti Cytomegalovirus gB Late Cytoplasmic Antigen antibody, clone hCMV34 does not react with HSV, VZV or EBV. Reacts with MRC-5 infected cells, but not uninfected cells.</p> <p>Mouse anti Cytomegalovirus gB Late Cytoplasmic Antigen antibody, clone hCMV34 has been used successfully to demonstrate presence of CMV in infected cells by immunofluorescence on paraformaldehyde fixed cell cultures (<a href="#">González-Sánchez et al 2015</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. González-Sánchez, H.M. <i>et al.</i> (2015) Effects of cytomegalovirus infection in human neural precursor cells depend on their differentiation state. <a href="#">J Neurovirol. 21 (4): 346-57.</a></li> <li>2. González-Sánchez, H.M. <i>et al.</i> (2025) Cytomegalovirus Infection Affects the Differentiation and Determines the Functionality of a Human Progenitor Neural Cell Line. <a href="#">Curr Microbiol. 82 (6): 256.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2470-5416">https://www.bio-rad-antibodies.com/SDS/2470-5416</a>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</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>

Product inquiries: [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
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