

## Datasheet: MCA406

**BATCH NUMBER 157539**

<b>Description:</b>	MOUSE ANTI HERPES SIMPLEX VIRUS 1 VP21/VP22a
<b>Specificity:</b>	HERPES SIMPLEX VIRUS 1 VP21/VP22a
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LP13
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	1 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	▪			
Immunofluorescence	▪			
Immuno-electron Microscopy	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody 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 A from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	HSV-1 strain HFEM
<b>RRID</b>	AB_322110
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Herpes simplex Virus 1 VP21/VP22a antibody, clone LP13</b> recognizes Herpes simplex virus 1, also known as HSV-1, a member of the herpes virus family, <i>Herpesviridae</i> that infect humans. HSV-1 is contagious and symptoms of infection include watery blisters in the skin or mucous membranes of the mouth, lips or genitals.</p> <p>Clone LP13 binds to the HSV-1 VP21/VP22a scaffold proteins.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. McClelland, D.A. <i>et al.</i> (2002) pH reduction as a trigger for dissociation of herpes simplex virus type 1 scaffolds. <a href="#">J Virol. 76 (15): 7407-17.</a></li> <li>2. Yang, K. <i>et al.</i> (2009) The putative leucine zipper of the UL6-encoded portal protein of herpes simplex virus 1 is necessary for interaction with pUL15 and pUL28 and their association with capsids. <a href="#">J Virol. 83 (9): 4557-64.</a></li> <li>3. McNab, A.R. <i>et al.</i> (1998) The product of the herpes simplex virus type 1 UL25 gene is required for encapsidation but not for cleavage of replicated viral DNA. <a href="#">J Virol. 72 (2): 1060-70.</a></li> <li>4. Newcomb, W.W. <i>et al.</i> (2000) Isolation of herpes simplex virus procapsids from cells infected with a protease-deficient mutant virus. <a href="#">J Virol. 74 (4): 1663-73.</a></li> <li>5. McCannPj3, r.d. <i>et al.</i> (1994) Investigation of the specificity of the herpes simplex virus type 1 protease by point mutagenesis of the autoproteolysis sites. <a href="#">J Virol. 68 (1): 526-9.</a></li> <li>6. Gao, M. <i>et al.</i> (1994) The protease of herpes simplex virus type 1 is essential for functional capsid formation and viral growth. <a href="#">J Virol. 68 (6): 3702-12.</a></li> <li>7. Morioka, H. <i>et al.</i> (1999) Co-localization of HSV-1 DNA and ICP35 protein by in situ hybridization and immunocytochemistry. <a href="#">J Electron Microsc (Tokyo). 48: 621-8.</a></li> <li>8. Bucks, M.A. <i>et al.</i> (2007) Herpes simplex virus type 1 tegument proteins VP1/2 and UL37 are associated with intranuclear capsids. <a href="#">Virology. 361: 316-24.</a></li> <li>9. Yang, K. <i>et al.</i> (2007) Putative terminase subunits of herpes simplex virus 1 form a complex in the cytoplasm and interact with portal protein in the nucleus. <a href="#">J Virol. 81 (12): 6419-33.</a></li> <li>10. Preston, V.G. and McDougall, I.M. (2002) Regions of the herpes simplex virus scaffolding protein that are important for intermolecular self-interaction. <a href="#">J Virol. 76: 673-87.</a></li> <li>11. Roller, R.J. <i>et al.</i> (2011) Intragenic and Extragenic Suppression of a Mutation in Herpes Simplex Virus 1 UL34 That Affects both Nuclear Envelope Targeting and Membrane Budding. <a href="#">J Virol. 85: 11615-25.</a></li> <li>12. Spencer, J.V. <i>et al.</i> (1007) Structure of the herpes simplex virus capsid: peptide A862-H880 of the major capsid protein is displayed on the rim of the capsomer protrusions. <a href="#">Virology. 228: 229-35.</a></li> <li>13. Vu, A. <i>et al.</i> (2016) Extragenic Suppression of a Mutation in Herpes Simplex Virus Type 1 (HSV-1) UL34 That Affects Lamina Disruption and Nuclear Egress. <a href="#">J Virol. Sep 21.</a></li> </ol>

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14. Feutz, E. *et al.* (2019) Functional interactions between herpes simplex virus pUL51, pUL7 and gE reveal cell-specific mechanisms for epithelial cell-to-cell spread. [Virology. 537: 84-96.](#)

15. Yang, K. and Baines, J.D. (2009) Tryptophan residues in the portal protein of herpes simplex virus 1 critical to the interaction with scaffold proteins and incorporation of the portal into capsids. [J Virol. 83: 11726-33.](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
This product should be stored undiluted.  
Storage in frost free freezers is not recommended. 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: <https://www.bio-rad-antibodies.com/SDS/MCA406>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

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