

Datasheet: MCA406

BATCH NUMBER 157975

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| Description: | MOUSE ANTI HERPES SIMPLEX VIRUS 1 VP21/VP22a |
| Specificity: | HERPES SIMPLEX VIRUS 1 VP21/VP22a |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | LP13 |
| Isotype: | IgG2a |
| Quantity: | 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.

| | 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.

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| Target Species | Viral |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant. |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |

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| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | HSV-1 strain HFEM |
| RRID | AB_322110 |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line. |
| Specificity | <p>Mouse anti Herpes simplex Virus 1 VP21/VP22a antibody, clone LP13 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> |
| References | <ol style="list-style-type: none"> 1. McClelland, D.A. <i>et al.</i> (2002) pH reduction as a trigger for dissociation of herpes simplex virus type 1 scaffolds. J Virol. 76 (15): 7407-17. 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. J Virol. 83 (9): 4557-64. 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. J Virol. 72 (2): 1060-70. 4. Newcomb, W.W. <i>et al.</i> (2000) Isolation of herpes simplex virus procapsids from cells infected with a protease-deficient mutant virus. J Virol. 74 (4): 1663-73. 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. J Virol. 68 (1): 526-9. 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. J Virol. 68 (6): 3702-12. 7. Morioka, H. <i>et al.</i> (1999) Co-localization of HSV-1 DNA and ICP35 protein by in situ hybridization and immunocytochemistry. J Electron Microsc (Tokyo). 48: 621-8. 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. Virology. 361: 316-24. 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. J Virol. 81 (12): 6419-33. 10. Preston, V.G. and McDougall, I.M. (2002) Regions of the herpes simplex virus scaffolding protein that are important for intermolecular self-interaction. J Virol. 76: 673-87. 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. J Virol. 85: 11615-25. 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. Virology. 228: 229-35. 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. J Virol. Sep 21. |

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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. |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA406 10040 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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| 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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