Datasheet: MCA406

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.

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	<0.1% Sodium Azide (NaN_3)

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	**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, *Herpesviridae* 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. Clone LP13 binds to the HSV-1 VP21/VP22a scaffold proteins.
References	1. Gao, M. *et al.* (1994) The protease of herpes simplex virus type 1 is essential for functional capsid formation and viral growth. J Virol. 68 (6): 3702-12. 2. Yang, K. *et al.* (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. McCann 3rd P.J.*et al.* (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. 4. Spencer, J.V. *et al.* (1997) 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. 5. Mcnab, A.R. *et al.* (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. 6. Morioka, H. *et al.* (1999) Co-localization of HSV-1 DNA and ICP35 protein by in situ hybridization and immunocytochemistry. J Electron Microsc (Tokyo). 48: 621-8. 7. Newcomb, W.W. *et al.* (2000) Isolation of herpes simplex virus procapsids from cells infected with a protease-deficient mutant virus. J Virol. 74 (4): 1663-73. 8. 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. 9. Mcclelland, D.A. *et al.* (2002) pH reduction as a trigger for dissociation of herpes simplex virus type 1 scaffolds. J Virol. 76 (15): 7407-17. 10. Bucks, M.A. *et al.* (2007) Herpes simplex virus type 1 tegument proteins VP1/2 and UL37 are associated with intranuclear capsids. Virology. 361: 316-24. 11. Yang, K. *et al.* (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. 12. Roller, R.J. *et al.* (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. 13. Vu, A. *et al.* (2016) Extragenic Suppression of a Mutation in Herpes Simplex Virus 1 UL34 That Affects Lamina Disruption and Nuclear Egress. J Virol. 90 (23): 10738-51.

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.

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.
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

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

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