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Produktinformation

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PRODUCT INFORMATION

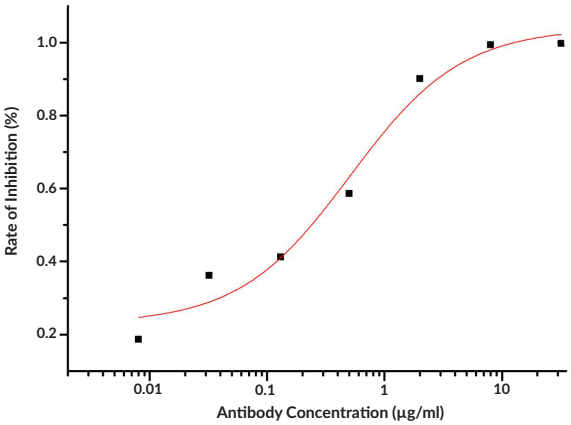
AcMNPV Major Envelope Glycoprotein Neutralizing Antibody

Item No. 37014

Overview and Properties

Contents:	This vial contains 200 or 500 µg of protein A-affinity purified monoclonal antibody
Synonyms:	AcMNPV GP64, *Autographa californica* Multicapsid Nucleopolyhedrovirus Major Envelope Glycoprotein, *Autographa californica* Multiple Nucleopolyhedrovirus Major Envelope Glycoprotein
Immunogen:	Recombinant AcMNPV (strain E2)
Cross Reactivity:	(+) Major envelope glycoprotein
Species Reactivity:	(+) AcMNPV; other species not tested
Form:	Liquid
Storage:	-80°C (as supplied)
Stability:	≥1 year
Storage Buffer:	0.2 µm filtered solution in PBS
Concentration:	>1 mg/ml
Clone:	M001
Host:	Mouse
Isotype:	IgG1
Applications:	Microneutralization (MN); the optimal working concentration/dilution should be determined empirically.

Image



AcMNPV Major Envelope Glycoprotein Neutralizing Antibody neutralization activity is measured by microneutralization (MN) assay *in vitro*. The virus MN assay was performed on *Sf*9 cells infected with 1e7 pfu/ml recombinant *Autographa californica* nucleopolyhedrovirus under treatment of serial dilutions of AcMNPV Major Envelope Glycoprotein Neutralizing Antibody. The infection was neutralized by increasing concentrations of AcMNPV Major Envelope Glycoprotein Neutralizing Antibody. The IC_{50} value is typically 0.25-1.0 µg/ml. The rate of inhibition was determined by comparing the fluorescence intensity of the reporter in the presence and absence of antibodies.

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PRODUCT INFORMATION

Description

Autographa californica multiple nucleopolyhedrovirus (AcMNPV) major envelope glycoprotein is a class III viral fusion protein.[1] AcMNPV is a double-stranded DNA insect virus and member of the *Baculoviridae* family. AcMNPV major envelope glycoprotein exists as a trimer and is composed of five domains in the low pH, post-fusion state that is highly post-translationally modified *via* glycosylation sites and a palmitoylation site at the C-terminus.[2,3] It is expressed on the surface of infected cells and budded virions.[1] AcMNPV major envelope glycoprotein is involved in viral envelope-host cell endosome membrane fusion in a low pH-dependent manner and in virion budding.[4,5] Lipoplexes containing AcMNPV major envelope glycoprotein have been used for gene delivery to mammalian cells, which can be inhibited by an AcMNPV major envelope glycoprotein neutralizing antibody.[6] Cayman's AcMNPV Major Envelope Glycoprotein Neutralizing Antibody can be used for microneutralization (MN) assays.

References

1. Yu, Q., Bai, L., Ji, N., *et al.* Critical residues and contacts within domain IV of *Autographa californica* multiple nucleopolyhedrovirus GP64 contribute to its refolding during membrane fusion. *J. Virol.* **94(19),** e01105-20 (2020).
2. Kadlec, J., Loureiro, S., Abrescia, N.G.A., *et al.* The postfusion structure of baculovirus GP64 supports a unified view of viral fusion machines. *Nat. Struct. Mol. Biol.* **15(10),** 1024-1030 (2008).
3 Zhang, S.X., Han, Y., and Blissard, G.W. Palmitoylation of the *Autographa californica* multicapsid nucleopolyhedrovirus envelope glycoprotein GP64: Mapping, functional studies, and lipid rafts. *J. Virol.* **77(11),** 6265-6273 (2003).
4. Hu, L., Li, Y., Ning, Y.-J., *et al.* The major hurdle for effective baculovirus transduction into mammalian cells is passing early endosomes. *J. Virol.* **93(15),** e00709-19 (2019).
5. Oomens, A.G.P. and Blissard, G.W. Requirement for GP64 to drive efficient budding of *Autographa californica* multicapsid nucleopolyhedrovirus. *Virology* **254(2),** 297-314 (1999).
6. Guibinga, G.-H., Song, S., Loring, J., *et al.* Characterization of the gene delivery properties of baculoviral-based virosomal vectors. *J. Virol. Methods.* **148(1-2),** 277-282 (2008).

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