

# Baculovirus Envelope gp64 Monoclonal Antibody (AcV1), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Virus
Published Species	Virus
Host/Isotype	Mouse / IgG2a
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	AcV1
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1633369

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	-

## Product Specific Information

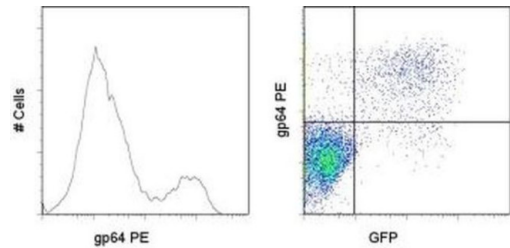
**Description:** The AcV1 monoclonal antibody reacts with the gp64 envelope protein of the baculovirus Autographa californica (AcMNPV). The gp64 envelope protein is essential for virus infectivity and is expressed on the surface of baculovirus-infected cells within six hours of infection. The AcV1 antibody can be used in flow cytometry-based viral titration experiments.

**Applications Reported:** This AcV1 antibody has been reported for use in flow cytometric analysis. This antibody can be used in identifying virally-infected insect cells and determining viral titers.

**Applications Tested:** This AcV1 antibody has been tested by flow cytometric analysis of baculovirus-infected insect cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



**Baculovirus Envelope gp64 Antibody (12-6991-82) in Flow**

Insect cells were infected with a GFP-expressing baculovirus and then harvested and stained after 72 hours. Staining with 0.125 µg of Anti-Baculovirus Envelope gp64 Protein PE is presented as a histogram (left) and versus GFP (right). Total viable cells were used for analysis.

1 Reference

Western Blot (1)

Nature communications	Year 2020
DeSiphering receptor core-induced and ligand-dependent conformational changes in arrestin via genetic encoded trimethylsilyl <sup>1</sup> H-NMR probe.	Species Virus
"12-6991 was used in Western Blotting to provide direct delineation and key mechanism insights that multiple receptor ligands were able to induce distinct functionally relevant conformational changes of arrestin."	Dilution 1:1000
Authors: Liu Q,He QT,Lyu X,Yang F,Zhu ZL,Xiao P,Yang Z,Zhang F,Yang ZY,Wang XY,Sun P,Wang QW,Qu CX,Gong Z,Lin JY,Xu Z,Song SL,Huang SM,Guo SC,Han MJ,Zhu KK,Chen X,Kahsai AW,Xiao KH,Kong W,Li FH,Ruan K,Li ZJ,Yu X,Niu XG,Jin CW,Wang J,Sun JP	

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