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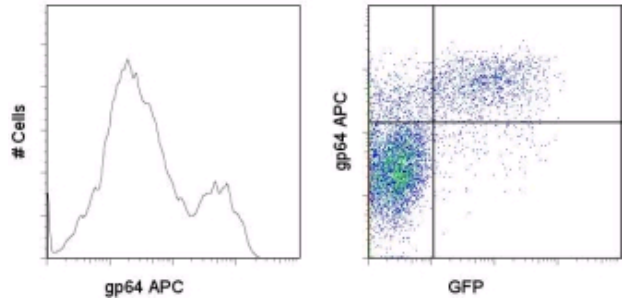
Anti-Baculovirus Envelope gp64 Protein APC

Catalog Number: 17-6991
Also Known As:BV gp64
RUO: For Research Use Only



Insect cells infected with a GFP-expressing baculovirus were harvested after 72 hours and stained with 0.015 µg of Anti-Baculovirus Envelope gp64 Protein APC. Data are presented as a histogram (left) or versus GFP (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Baculovirus Envelope gp64 Protein APC
REF Catalog Number: 17-6991
Clone: AcV1
Concentration: 0.2 mg/ml
Host/Isotype: Mouse IgG2a

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

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 flow cytometric analysis of baculovirus-infected insect cells. This can be used at less than or equal to 0.015 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Zhou J, Blissard GW. Mapping the conformational epitope of a neutralizing antibody (AcV1) directed against the AcMNPV GP64 protein. Virology. 2006 Sep 1;352(2):427-37.

Kumar M, Bradow BP, Zimmerberg J. Large-scale production of pseudotyped lentiviral vectors using baculovirus GP64. Hum Gene Ther. 2003 Jan 1;14(1):67-77.

Volkman LE, Goldsmith PA. Resistance of the 64K protein of budded Autographa californica nuclear polyhedrosis virus to functional inactivation by proteolysis. Virology. 1988 Sep;166(1):285-9.

Hohmann AW, Faulkner P. Monoclonal antibodies to baculovirus structural proteins: determination of specificities by Western blot analysis. Virology. 1983 Mar;125(2):432-44.

Related Products

17-4724 Mouse IgG2a K Isotype Control APC

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