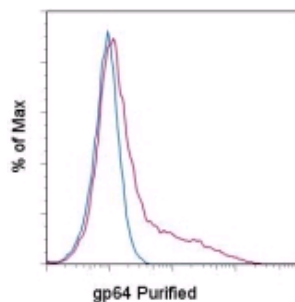


Anti-Baculovirus Envelope gp64 Protein Purified

Catalog Number: 14-6991

Also Known As: BV gp64

RUO: For Research Use Only



Staining of baculovirus-infected insect cells with 0.25 µg of Mouse IgG2a κ Isotype Control Purified (cat. 14-4724) (blue) or 0.25 µg of Anti-Baculovirus Envelope gp64 Protein Purified (purple) followed by F(ab')₂ Anti-Mouse IgG PE (cat. 12-4012). Total viable cells were used for analysis.

Product Information

Contents: Anti-Baculovirus Envelope gp64 Protein Purified


REF Catalog Number: 14-6991

Clone: AcV1

Concentration: 0.5 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.

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

The AcV1 antibody has been reported for use in flow cytometric analysis. This antibody can be used in identifying virally-infected insect cells.

Applications Tested

The AcV1 antibody has been tested by flow cytometry on baculovirus infected insect cells. This can be used at less than or equal to 1 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 10⁵ to 10⁸ 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

14-4724 Mouse IgG2a K Isotype Control Purified

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