**BACKGROUND**

Viruses are obligate intracellular parasites which, lacking the cellular machinery for self-reproduction, can reproduce only by invading and controlling other cells. Virus particles are composed of a nucleic acid genome consisting of either DNA or RNA encapsulated with a protein coat. The baculovirus envelope protein gp64 is a phosphoglycoprotein located on the surface of infected cells and budded virions. This protein may be involved in fusion of the viral envelope with the endosomal membrane. It also contains N-linked glycosylation sites and hydrophobic C- and N-termini, a characteristic of signal and membrane anchor motifs in envelope glycoproteins.

**REFERENCES**


**SOURCE**

Baculovirus gp64 (AcV1) is a mouse monoclonal antibody raised against AcNPV extracellular nonoccluded virus (NOV).

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Baculovirus gp64 (AcV1) is available conjugated to agarose (sc-65498 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-65498 HRP), 200 µg/ml, for WB, IHC and ELISA; to either phycocyanin (sc-65498 PE), fluorescein (sc-65498 FITC), Alexa Fluor® 488 (sc-65498 AF488), Alexa Fluor® 546 (sc-65498 AF546), Alexa Fluor® 594 (sc-65498 AF594) or Alexa Fluor® 647 (sc-65498 AF647), 200 µg/ml, for WB (RGB), IF, IHC and FCM, and to either Alexa Fluor® 680 (sc-65498 AF680) or Alexa Fluor® 790 (sc-65498 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Baculovirus gp64 (AcV1) is recommended for detection of baculovirus envelope protein gp64 of AcNPV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and flow cytometry (1 µg per 1 x 10⁶ cells).

Molecular Weight of Baculovirus gp64: 64-67 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP; sc-516102 or m-IgGκ BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker®
2) Immunoprecipitation: use Protein A/G PLUS-Agarose; sc-2003 (0.5 ml agarose/2.0 ml).

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

- **Western Blot analysis of Autographa californica nucleopolyhedrovirus (AcNPV) (strain E2) recombinant gp64**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.