Baculovirus gp64 (AcV1): sc-65498



The Power to Question

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 encapsidated 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 motifts in envelope glycoproteins.

REFERENCES

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 of sequences modulating early transcription and transactivation by IE1.
 J. Virol. 65: 5820-5827.
- Blissard, G.W., et al. 1992. Baculovirus gp64 envelope glycoprotein is sufficient to mediate pH-dependent membrane fusion. J. Virol. 66: 6829-6835.

SOURCE

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

PRODUCT

Each vial contains 200 μg lgG_{2a} 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 $\mu g/0.25$ ml agarose in 1 ml, for IP; to HRP (sc-65498 HRP), 200 $\mu g/ml$, for WB, IHC(P) and ELISA; to either phycoerythrin (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 $\mu g/ml$, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-65498 AF680) or Alexa Fluor® 790 (sc-65498 AF790), 200 $\mu g/ml$, 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 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and flow cytometry (1 μ g per 1 x 10⁶ cells).

Molecular Weight of Baculovirus gp64: 64-67 kDa.

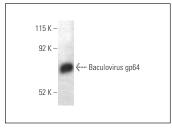
RECOMMENDED SUPPORT REAGENTS

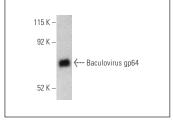
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 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





Baculovirus gp64 (AcV1) HRP: sc-65498 HRP. Western blot analysis of *Autographa californica* nucleopolyhedrovirus (AcNPV)(strain E2) recombinant

Baculovirus gp64 (AcV1): sc-65498. Western blot analysis of *Autographa californica* nucleopolyhedrovirus (AcNPV)(strain E2) recombinant gp64.

SELECT PRODUCT CITATIONS

- Lehiy, C.J., et al. 2009. Virion-associated viral fibroblast growth factor stimulates cell motility. Virology 395: 152-160.
- Zheng, H., et al. 2010. Baculovirus expression of cloned porcine arterivirus generates infectious particles in both insect and mammalian cells. J. Biotechnol. 150: 251-258.
- 3. Richard, J.P., et al. 2011. Intracellular curvature-generating proteins in cell-to-cell fusion. Biochem. J. 440: 185-193.
- 4. Kataoka, C., et al. 2012. Baculovirus gp64-mediated entry into mammalian cells. J. Virol. 86: 2610-2620.
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- 11. Wei, S.C., et al. 2021. An integrated platform for serological detection and vaccination of COVID-19. Front. Immunol. 12: 771011.

RESEARCH USE

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