



Genesis Biotech Inc.

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Anti-avian reovirus sigma C, mouse-monoclonal antibody

Catalog No. PG-20009

Quantity: 100 μ g

Applications tested: ELISA, Western blot, IFA

Antigen species: Avian reovirus

Reactivity: Avian reovirus

Host species: mouse

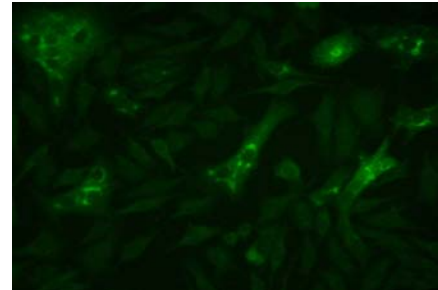
Clone No.: D15

Form: protein A affinity purified antibody

Target description

ARV is an important cause of diseases in poultry. In particular, reovirus-induced arthritis, chronic respiratory diseases, and malabsorption syndrome. Protein σ C, encoded by the third open reading frame (ORF) of S1 genome segment, is a cell attachment protein and apoptosis inducer. Some studies have suggested that σ C protein is the target for type-specific neutralizing antibodies.

IFA analysis



Antigen

This monoclonal antibody was raised by immunizing mouse with sigma c protein of avian reovirus S1133 expressed in Sf9 insect cells.

Post-infection 24h, ARV s1133-infected vero cells was stained by indirect immunofluorescence assay (IFA) with a mouse anti- ARV sigma c monoclonal antibody #PG-20009.

Application

The antibody titer is more than 100K for ELISA and tested positive for IFA and Western blot analysis of transfected total cell lysate. For the first testing, we recommend 1/5,000 dilution for ELISA, 1/1,000 dilution for Western blot and dot blot of recombinant protein, 1/1000 dilution for tissue extracts or cell lysates, 1/1000 dilution for immunofluorescence assay (IFA).

Storage

It is supplied as protein A affinity purified polyclonal antibody in lyophilized powder. Reconstituted the powder with 100 microliter sterile water will restore to the original concentration 1mg/mL. Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

Related Products

1. Anti-p10 pAb (GB-10378)
2. Anti-p17 pAb (GB-10379)

References

1. Shih, W. L., Hsu, H. W., Liao, M. H., Lee, L. H. & Liu, H. J. (2004) Avian reovirus σ C protein induces apoptosis in cultured cells. *Virology* 321, 65-74.
2. Grande, A., Rodriguez, E., Costas, C., Everitt, E. & Benavente, J. (2000). Oligomerization and cell-binding properties of the avian reovirus cell-attachment protein σ C. *Virology* 274, 367-377.
3. Hsu, C. J., Wang, C. Y., Lee, L. H., Shih, W. L., Chang, C. I., Cheng, H. L., Chulu, J. L. C., Ji, W. T. & Liu, H. J. (2006). Characterization of monoclonal antibodies against avian reovirus S1133 σ C protein produced in insect cells and their application in detection of ARV isolates. *Avian Pathology* (in press).

Western Blot Analysis



The expressed sigma c (39 KDa) of ARV S1133 was detected with a mouse anti-sigma c monoclonal antibody.