Genesis Biotech Inc.
http://www.genesisbio.com.tw
info@genesisbio.com.tw

TEL: +886-2-22181731
FAX: +886-2-22181732
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Anti-Avian reovirus sigma C, mouse-monoclonal antibody

Catalog No. PG-20009 **Quantity:** 100μg
Antigen species: Avian reovirus
Host species: Mouse **Clone No.:** D15
Applications tested: ELISA, Western blot, IFA
Reactivity: Avian reovirus
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 σC, 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 σC protein is the target for type-specific neutralizing antibodies.

Antigen

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

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 immunofluoresence assay (IFA).

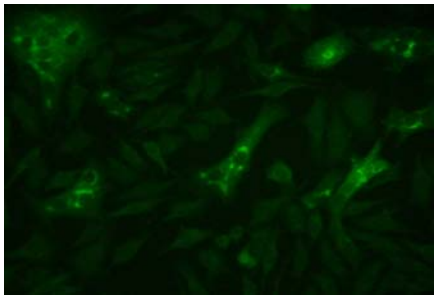
Related Products

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

Western Blot Analysis

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

IFA analysis



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

Storage

It is supplied as protein A affinity purified monoclonal 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.

References

1. Shih, W. L., Hsu, H. W., Liao, M. H., Lee, L. H. & Liu, H. J. (2004) Avian reovirus σC 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 avain reovirus cell-attachment protein σC. 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 σC protein produced in insect cells and their application in detection of ARV isolates. Avian Pathology (in press).