元郁有限公司
Yuan Yu Ltd.

TEL: +886-2-22182849
FAX: +886-2-22181732
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Anti-p17 (Avian reovirus) , Rabbit-Polyclonal Antibody

Catalog No. GB-10379 **Quantity:** 100μg **Applications tested:** ELISA, Western blot
Antigen species: Avian reovirus **Reactivity:** Avian reovirus
Host species: Rabbit **Form:** Peptide affinity purified antibody

Target description

The second open reading frame of avian reovirus S1 gene segment encodes a 17 kDa non-structural protein, named p17. The biological role of p17 is fully unknown so far. Using trypan blue dye exclusion and MTT assay, demonstrated that the ectopic expression of p17 results in the reduction of viable cell number and cell proliferation rate of Vero, BHK, 293, and HeLa cells. Measurement of LDH activity and DNA fragmentation analysis revealed that p17 expression did not cause cell death or apoptosis. These data indicated that the p17 possessed the growth retardation function. Semi-quantitative RT-PCR and Western blotting revealed that p17-expressing cells induced the expression of CDK inhibitor p21cip1/waf1 in a time- and dose-dependent manner, but the transcripts of CDK inhibitor p15INK4b, p16INK4a, or p27kip were not altered.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide of p17(a.a.100-140).

Application

The antibody titer is more than 1000K for ELISA and 500× for western blot. It has not been tested in the other applications. However, for the first testing, we recommend 1/50,000 dilution for ELISA, 1/500 dilution for Western blot analysis (WB) of recombinant protein, 1/100 dilution for tissue extracts or cell lysates, 1/50 dilution for immuno-histochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

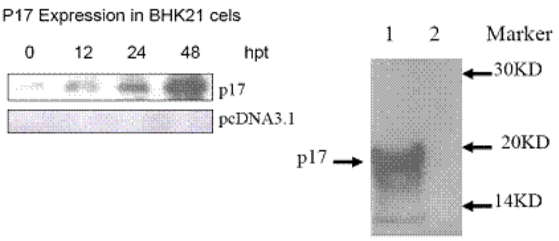
Related Products

1. Anti-p10 pAb (GB-10378)
2. Anti-Sigma C(avian reovirus) mAb (PG-20009)

Ab dilution	Purified-Ab
Blank	0.0425
(-)1:1000	0.0953
1:8K	3.1071
1:16K	2.5834
1:32K	2.0333
1:64K	1.5324
1:128K	1.2432
titer	**>128K**

ELISA Protocol

Antigen is coated on EIA strips at 1μg per well. Add 200μl of blocking buffer and then wash wells with PBST buffer. Antiserum or peptide specific purified antibody GB-10379 is diluted in series as 10^3~10^6 folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody is positive at >2 folds of ABS of control/Pre-Immune serum.



Western blot analysis of avian reovirus p17 protein. 1:p17, 2: pcDNA3.1

GB-10379 was used to detect p17 protein expressed in BHK-21 cells at 0, 12, 24 and 48 hours post-transfection and was diluted at a rate of 1:500.

Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1 mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Hsu HW, Su HY, Huang PH, Lee BL, Liu HJ. Sequence and phylogenetic analysis of P10- and P17-encoding genes of avian reovirus.Avian Dis. Mar;49(1):36-42 (2005).
2. Liu HJ, Lin PY, Lee JW, Hsu HY, Shih WL. Retardation of cell growth by avian reovirus p17 through the activation of p53 pathway. Biochem Biophys Res Commun. Oct 21;336(2):709-15 (2005).
3. Costas C, Martinez-Costas J, Bodelon G, Benavente J. The second open reading frame of the avian reovirus S1 gene encodes a transcription-dependent and CRM1-independent nucleocytoplasmic shuttling protein. J Virol. Feb;79(4):2141-50 (2005).