



Anti-Taxol, Rabbit-Polyclonal Antibody

Catalog No. PG-10007

Quantity: 100µg

Applications: ELISA

Antigen species: Taxol

Reactivity: Taxol

Host species: Rabbit

Form: Antiserum was treated by caprylic acid and followed by ammonium sulphate precipitation

Target description

Taxol (paclitaxel) is particularly effective as an anticancer agent because tubulin is not its only target. It also binds to a protein called Bcl-2, which normally blocks the process of apoptosis, or cell death. Taxol therefore plays a dual role in destroying dividing cells, firstly by stabilising assembled microtubules and thereby halting mitosis, and secondly by inhibiting Bcl-2 and allowing apoptosis to proceed.

Antigen

This polyclonal antibody was raised by immunizing rabbit with the Taxol-BSA.

Application

The antibody specificity was assayed by ELISA with Taxol-tg. The antibody titer is more than 10K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/1,000 dilution for ELISA, 1/500 dilution for Western blot analysis (WB) of recombinant protein, 1/100 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections or paraffin embedded sections.

Related Products

1. Anti-Amyloid β (1-40), rabbit pAb (GB-10356)
2. Anti-Amyloid β (37-42), rabbit pAb (GB-10370)
3. Anti-human fibrinogen, rabbit pAb (PG-10006)
4. Anti-Troponin I (TNNI3), chicken pAb (PY-10206)
5. Anti-Troponin I (49-92), chicken pAb (PY-10269)

| Ab dilution | Control | Anti-serum |
|-----------------|---------|----------------|
| 1:10,000 | 6.769 | 11.442 |
| 1:1,000 | 6.402 | 15.622 |
| 1:100 | 10.650 | 22.400 |
| 1:10 | 5.216 | 20.468 |
| Titer | | >10K |

ELISA protocol

Antigen is coated on EIA strips at 0.4µg per well. Antiserum PG-10007 is diluted in series as 10^1 – 10^4 folds and added in separate wells. Incubate antibody for 0.5 hr. 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 405 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.

Storage

Antiserum was treated by caprylic acid and followed by ammonium sulphate precipitation. The precipitation was dissolved in the serum volume of phosphate buffer saline containing 0.01 % sodium azide and then lyophilized. Redissolve the lyophilized powder with 100 microliter sterile water will restore the original condition. Store at 4°C for short term application. For long-term storage, aliquot and store at -20°C.

References

1. Marone, M., D'Andrilli, G., Das, N., Ferlini, C., Chatterjee, S., Scambia, G. Quercetin abrogates taxol mediated signaling by inhibiting multiple kinases. *Exp Cell Res* 2001; 270(1):1-12
2. Amos, L.A., Lowe, J. How Taxol stabilises microtubule structure. *Chem Bio* 1999; 6(3):R65-9