



Anti-Taxol, Rabbit-Polyclonal Antibody

Catalog No. PG-10007

Antigen species: Taxol

Host species: Rabbit

Quantity: 250 μ l

Reactivity: Taxol

Form: Antiserum

Applications: ELISA

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-10536)
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 0.4 μ g per well. Antiserum PG-10007 is diluted in series as $10^1 \sim 10^4$ 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

It is supplied as lyophilized serum. Redissolve the lyophilized powder with 250 microliter sterile water will restore the original condition. Store at 4 $^{\circ}$ C for short term application. For long-term storage, aliquot and store at -20 $^{\circ}$ 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

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