



## Anti-DNA(cytosine-5-)-methyltransferase 1(DNMT1), Chicken-Polyclonal Antibody

**Catalog No.** PY-10156

**Antigen species:** Human

**Host species:** Chicken

**Quantity:** 100µg **Applications tested:** Western blot, IHC

**Reactivity:** Human, bovine

**Form:** Antigen affinity purified antibody

### Target description

DNA (cytosine-5-)-methyltransferase 1 has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities.

### Antigen

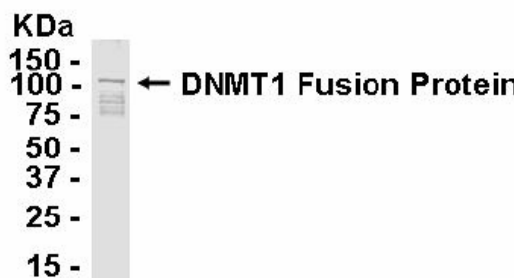
This polyclonal antibody was raised by immunizing chicken with human DNMT1 fusion protein (177-550 amino acids).

### Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1:2000(ECL method), for tissue or cell staining is 1:200. Optimal working dilutions must be determined by the end user.

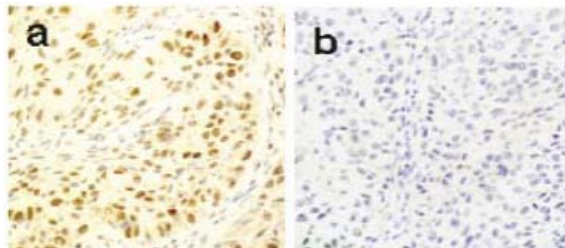
### Related Products

1. Anti-DNA cytosine methyltransferase 3 alpha isoform a (DNMT3a), Chicken pAb (PY-10157).
2. Anti-DNA (cytosine-5-)-methyltransferase 3 beta (DNMT3b), Chicken pAb (PY-10202).



### Western blot Protocol

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 2,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1:1,000 for ECL (with 1% milk PBS-T) at R.T. for 1h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.



### Immunohistochemistry Staining:

Overexpression of DNMT1 in surgically resected NSCLC tumors.

**a** nuclear positive; **b** negative.

### Storage

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

### References

1. Rountree, M.R., Bachman, K.E. and Baylin, S.B. DNMT1 binds HDAC2 and a new co-repressor, DMAP1, to form a complex at replication foci. Nat. Genet. 25 (3), 269-277 (2000)