


## Product datasheet

# Anti-Thymine DNA glycosylase antibody ab106301

★★★★☆ 3 Abreviews 3 图像

### 概述

<b>产品名称</b>	Anti-Thymine DNA glycosylase 抗体
<b>描述</b>	兔多克隆抗体 to Thymine DNA glycosylase
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB, IP
<b>种属反应性</b>	<b>与反应:</b> Mouse, Human <b>预测可用于:</b> Rat, Rabbit, Chicken, Chinese hamster 
<b>免疫原</b>	Synthetic peptide conjugated to KLH derived from within residues 250 - 350 of Human Thymine DNA glycosylase .参阅Abcam的专有抗源政策
<b>阳性对照</b>	This antibody gave a positive signal in the following whole cell lysates: HeLa; Jurkat; HEK293; A431; Hues7.

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>存储溶液</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Note: Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
<b>纯度</b>	Immunogen affinity purified
<b>克隆</b>	多克隆
<b>同种型</b>	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab106301** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 46 kDa).
IP		Use a concentration of 5 µg/ml.

## 靶标

### 功能

In the DNA of higher eukaryotes, hydrolytic deamination of 5-methylcytosine to thymine leads to the formation of G/T mismatches. This enzyme corrects G/T mispairs to G/C pairs. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and a mispaired thymine. In addition to the G/T, it can remove thymine also from C/T and T/T mispairs in the order G/T >> C/T > T/T. It has no detectable activity on apyrimidinic sites and does not catalyze the removal of thymine from A/T pairs or from single-stranded DNA. It can also remove uracil and 5-bromouracil from mispairs with guanine.

### 序列相似性

Belongs to the TDG/mug DNA glycosylase family.

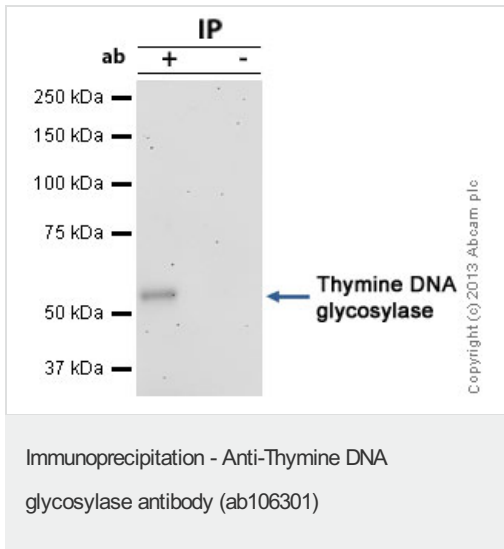
### 翻译后修饰

Sumoylation on Lys-330 by either SUMO1 or SUMO2 induces dissociation of the product DNA.

### 细胞定位

Nucleus.

## 图片



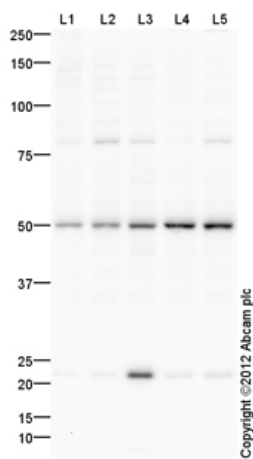
Thymine DNA glycosylase was immunoprecipitated using 0.5mg A431 whole cell extract, 5µg of Rabbit polyclonal to Thymine DNA glycosylase and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, A431 whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab106301.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).

Band: 50kDa; Thymine DNA glycosylase



Western blot - Anti-Thymine DNA glycosylase antibody (ab106301)

**All lanes** : Anti-Thymine DNA glycosylase antibody (ab106301) at 1 µg/ml

**Lane 1** : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 2** : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

**Lane 3** : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

**Lane 4** : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 5** : HUES7 (Human embryonic stem cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

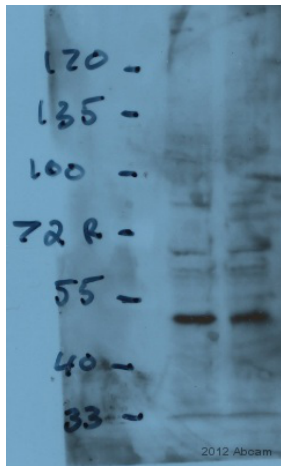
Performed under reducing conditions.

**Predicted band size:** 46 kDa

**Observed band size:** 50 kDa

**Additional bands at:** 22 kDa, 78 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 2 minutes



Western blot - Anti-Thymine DNA glycosylase antibody (ab106301)

This image is courtesy of an anonymous Abreview

**All lanes :** Anti-Thymine DNA glycosylase antibody (ab106301) at 1 µg/ml

**All lanes :** Mouse ES whole cell lysate

Lysates/proteins at 100 µg per lane.

**Secondary**

**All lanes :** HRP Goat anti-rabbit IgG polyclonal at 1/2000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 46 kDa

**Observed band size:** 50 kDa

**Exposure time:** 30 seconds

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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