


Product datasheet

Anti-Thymine DNA glycosylase antibody ab106301

★★★★☆ 2 Abreviews 3 图像

概述

产品名称	Anti-Thymine DNA glycosylase 抗体
描述	兔多克隆抗体 to Thymine DNA glycosylase
经测试应用	适用于: WB, IP
种属反应性	与反应: Mouse, Human 预测可用于: Rat, Rabbit, Chicken, Chinese hamster 
免疫原	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
阳性对照	This antibody gave a positive signal in the following whole cell lysates: HeLa; Jurkat; HEK293; A431; Hues7.

性能

形式	Liquid
存放说明	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.
存储溶液	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.
纯度	Immunogen affinity purified
克隆	多克隆
同种型	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.

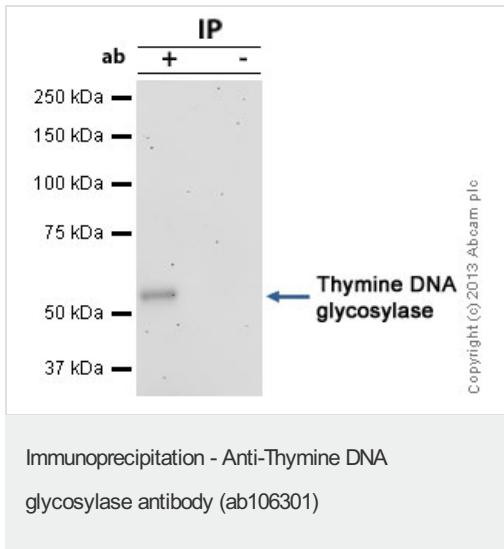
翻译后修饰

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

细胞定位

Nucleus.

图片



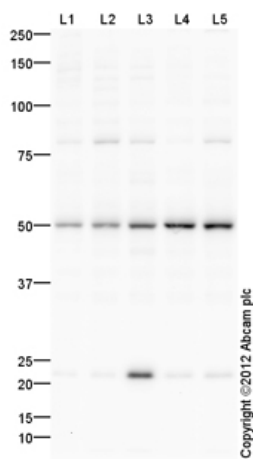
Thymine DNA glycosylase was immunoprecipitated using 0.5mg A431 whole cell extract, 5µg of Rabbit polyclonal to Thymine DNA glycosylase and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

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

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

Developed using the ECL technique

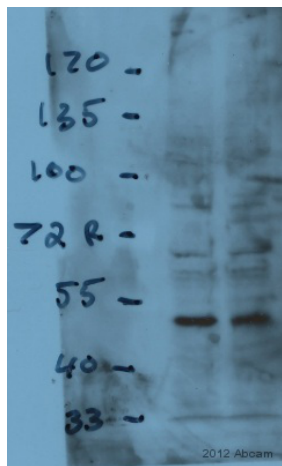
Performed under reducing conditions.

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

Lane 1 : Mouse ES whole cell lysate

Lane 2 : Mouse ES whole cell lysate

Lysates/proteins at 100 µg per lane.

Secondary

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

This image is courtesy of an anonymous Abreview

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