

Anti-DNA Ligase III antibody [6G9] ab587

★★★★☆ [4 Abreviews](#) [21 References](#) [3 图像](#)

概述

产品名称	Anti-DNA Ligase III抗体[6G9]
描述	小鼠单克隆抗体[6G9] to DNA Ligase III
宿主	Mouse
经测试应用	适用于: IHC-P, WB, ICC/IF, Flow Cyt
种属反应性	与反应: Human
免疫原	Recombinant human DNA Ligase III protein encoding amino acids 1-862 purified from baculovirus-infected Sf-9 cells.
阳性对照	MCF7, T24 cells and recombinant protein.
常规说明	DNA Ligase III gene product migrates as a 100kDa (α-form) protein in somatic tissues, is ubiquitously expressed and complexes with XRCC-1 and a 97kDa (β-form) protein that is found in testis, and is involved in rejoining DNA single-strand breaks and in the base excision repair pathway.

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	Preservative: None Constituents: 10mM PBS, pH 7.4
纯度	Protein G purified
克隆	单克隆
克隆编号	6G9
骨髓瘤	NS1
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用ab587于以下的经测试应用

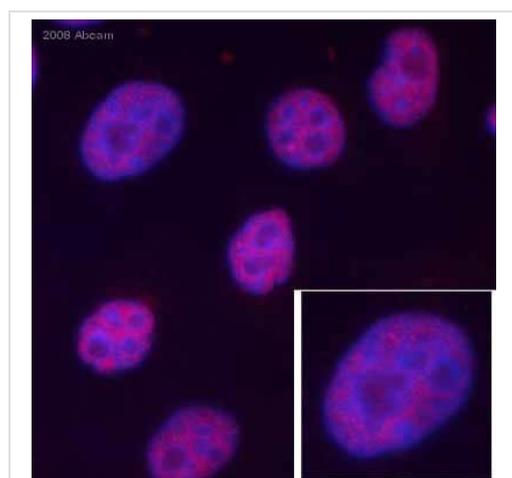
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
WB	★★★★★ (1)	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 103 kDa.
ICC/IF	★★★★★ (2)	1/100.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	Interacts with DNA-repair protein XRCC1 and can correct defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and alkylating agents.
组织特异性	Testis, thymus, prostate and heart.
序列相似性	Belongs to the ATP-dependent DNA ligase family. Contains 1 BRCT domain. Contains 1 PARP-type zinc finger.
细胞定位	Nucleus.

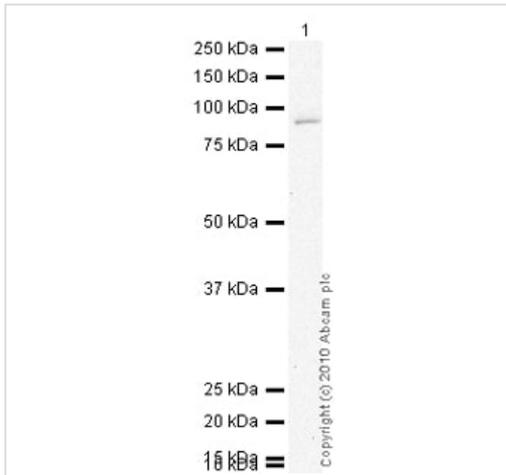
图片



ab587 staining cultured human HeLa cells by ICC/IF. Cells were PFA fixed and permeabilized in 0.5% Triton X100 prior to blocking in 5% BSA for 1 hour at 20°C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 20°C. A Cy3® conjugated donkey anti-mouse antibody diluted was used as the secondary.

Immunocytochemistry/ Immunofluorescence - Anti-DNA Ligase III antibody [6G9] (ab587)

This image is courtesy of an Abreview submitted by Dr Alexander Rapp



Western blot - Anti-DNA Ligase III antibody [6G9] (ab587)

Anti-DNA Ligase III antibody [6G9] (ab587) at 1 µg/ml + Human testis tissue lysate - total protein (**ab30257**) at 10 µg

Secondary

Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

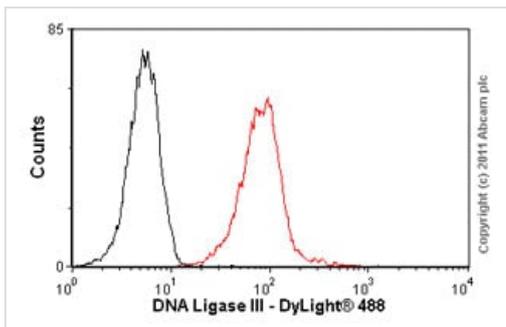
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 103 kDa

Observed band size: 92 kDa

Exposure time: 20 minutes



Flow Cytometry - Anti-DNA Ligase III antibody [6G9] (ab587)

Overlay histogram showing HeLa cells stained with ab587 (red line). The cells were fixed with 100% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab587, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

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