

### Anti-XRCC4 antibody ab97351

★★★★★ [3 Abreviews](#) [5 References](#) [3 图像](#)

#### 概述

产品名称	Anti-XRCC4抗体
描述	兔多克隆抗体to XRCC4
宿主	Rabbit
经测试应用	适用于: IHC-P, WB, ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide, corresponding to a region within amino acids 266-279 of Human XRCC4 (NP_071801)
阳性对照	WB: HeLa cell nuclear extract. IHC-P: HBL435 xenograft tissue. IF: HeLa cell.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

#### 应用

## The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab97351 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		1/100 - 1/1000.
WB	★★★★★ (1)	1/500 - 1/3000. Detects a band of approximately 55 kDa (predicted molecular weight: 38 kDa).
ICC/IF	★★★★☆ (2)	1/100 - 1/1000.

## 靶标

### 功能

Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends.

### 组织特异性

Widely expressed.

### 序列相似性

Belongs to the XRCC4 family.

### 翻译后修饰

Phosphorylated by PRKDC. The phosphorylation seems not to be necessary for binding to DNA. Phosphorylation by CK2 promotes interaction with APTX.

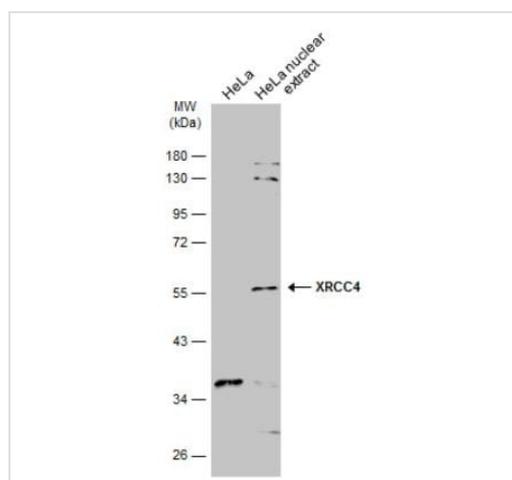
Monoubiquitinated.

Sumoylation at Lys-210 is required for nuclear localization and recombination efficiency. Has no effect on ubiquitination.

### 细胞定位

Nucleus.

## 图片



Western blot - Anti-XRCC4 antibody (ab97351)

**All lanes** : Anti-XRCC4 antibody (ab97351) at 1/500 dilution

**Lane 1** : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 2** : HeLa cell nuclear extract

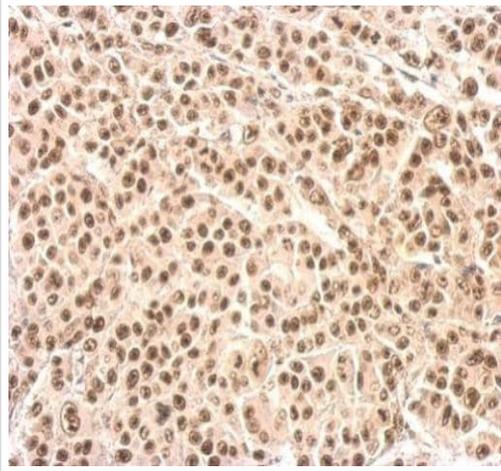
Lysates/proteins at 30 µg per lane.

### Secondary

**All lanes** : HRP-conjugated anti-rabbit IgG antibody

**Predicted band size:** 38 kDa

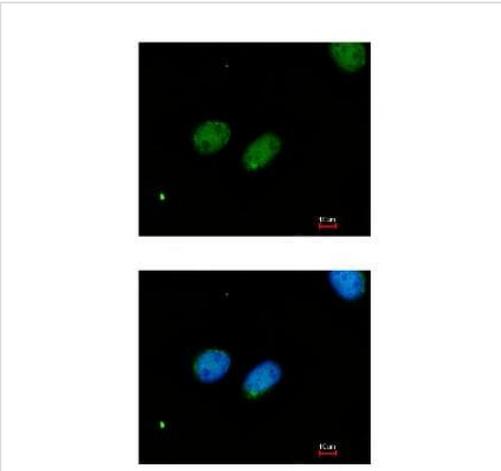
## 10% SDS-PAGE



Immunohistochemical analysis of paraffin-embedded HBL435 xenograft using ab97351 at 1/500 dilution.

Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XRCC4 antibody (ab97351)



Immunofluorescence analysis of paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labelling XRCC4 using ab97351 at 1/200 dilution. Lower image was also labelled with DNA probe.

Immunocytochemistry/ Immunofluorescence - Anti-XRCC4 antibody (ab97351)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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