


Anti-XPA antibody [5F12] ab65963

敲除 验证

★★★★☆ [1 Abreviews](#) [8 References](#) [4 图像](#)

概述

产品名称	Anti-XPA抗体[5F12]
描述	小鼠单克隆抗体[5F12] to XPA
宿主	Mouse
经测试应用	适用于: WB, ICC/IF
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Recombinant full length XPA protein (Human)
表位	Amino acids 30-47.
阳性对照	WB: HeLa and 293T cell lysates.
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&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 6 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
纯度	Ion Exchange Chromatography
克隆	单克隆
克隆编号	5F12
同种型	IgG2b

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab65963 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
WB	★★★★★ (1)	Use a concentration of 0.1 - 1 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 31 kDa).
ICC/IF		Use at an assay dependent concentration.

靶标

功能

Involved in DNA excision repair. Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Required for UV-induced CHK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimmers (CPD), sites of DNA damage after UV irradiation.

组织特异性

Expressed in various cell lines and in skin fibroblasts.

疾病相关

Defects in XPA are a cause of xeroderma pigmentosum complementation group A (XP-A) [MIM:278700]; also known as xeroderma pigmentosum type 1 (XP1). XP-A is a rare human autosomal recessive disease characterized by solar sensitivity, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities. Group A patients show the most severe skin symptoms and progressive neurological disorders.

序列相似性

Belongs to the XPA family.

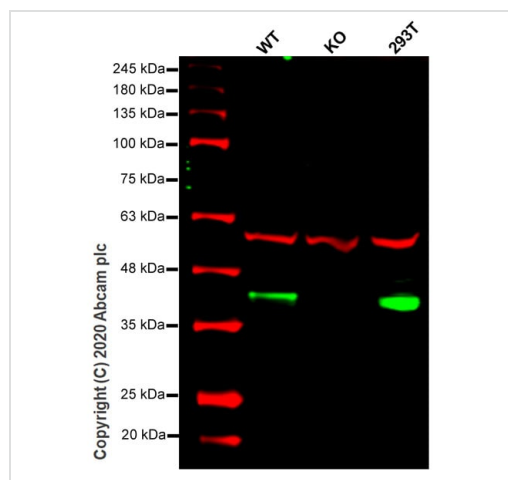
翻译后修饰

Phosphorylated upon DNA damage, probably by ATM or ATR.
Ubiquitinated by HERC2 leading to degradation by the proteasome.

细胞定位

Nucleus.

图片



Western blot - Anti-XPA antibody [5F12] (ab65963)

All lanes : Anti-XPA antibody [5F12] (ab65963) at 1/500 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : XPA knockout HeLa cell lysate

Lane 3 : 293T cell lysate

Lysates/proteins at 20 µg per lane.

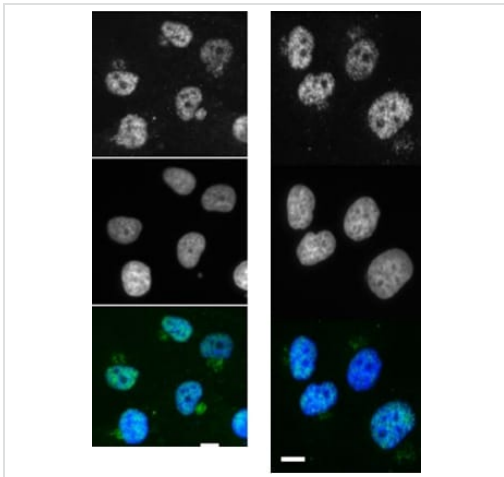
Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 38 kDa

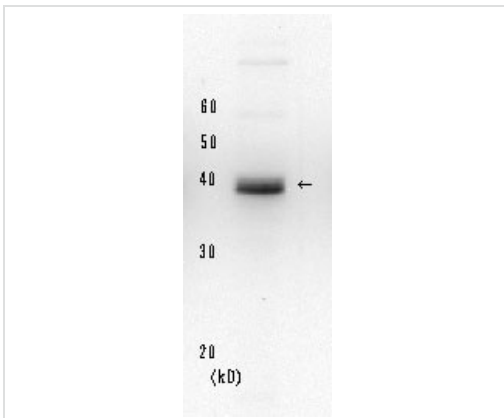
Lanes 1-3: Merged signal (red and green). Green - ab65963 observed at 38 kDa. Red - loading control, **ab52866** observed at 50 kDa.

ab65963 Anti-XPA antibody [5F12] was shown to specifically react with XPA in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264663** (knockout cell lysate **ab258764**) was used. Wild-type and XPA knockout samples were subjected to SDS-PAGE. ab65963 and Anti-alpha Tubulin antibody [EP1332Y] - Loading Control (**ab52866**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Immunofluorescent staining of human fibroblast cells (GM0637) using ab65963 at a dilution of 1/100. The cells were non-irradiated (left) or irradiated with UV at 20 J/m² (right), fixed after 30 minutes with paraformaldehyde and counter-stained with Hoescht. The top panels show the antibody staining, the middle panels show the Hoescht staining and the bottom panels are a merge of the two images. The secondary antibody was an Alexa Fluor® 488 conjugated goat anti-mouse IgG, used at a dilution of 1/5000.

Immunocytochemistry/ Immunofluorescence - Anti-XPA antibody [5F12] (ab65963)

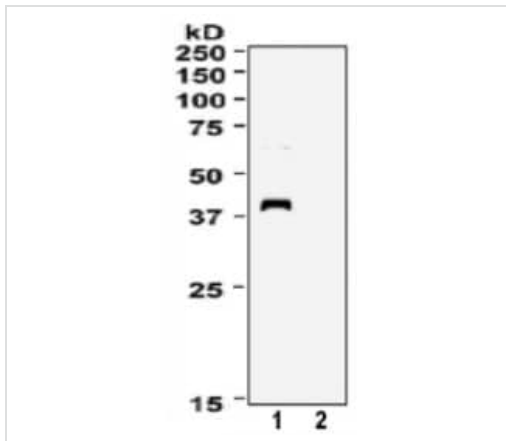


Anti-XPA antibody [5F12] (ab65963) at 0.1 µg/ml + Crude extract of HeLa cells at 200 µg

Predicted band size: 31 kDa

Observed band size: 38 kDa

Western blot - Anti-XPA antibody [5F12] (ab65963)



Western blot - Anti-XPA antibody [5F12] (ab65963)

All lanes : Anti-XPA antibody [5F12] (ab65963) at 1/2000 dilution

Lane 1 : HeLa cell extract (XPA wild type)

Lane 2 : XP12ROSV cell extract (XPA deficient)

Predicted band size: 31 kDa

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