

## Product datasheet

# Anti-53BP1 antibody ab36823

★★★★☆ 11 Abreviews 62 References 5 图像

### 概述

产品名称	Anti-53BP1抗体
描述	兔多克隆抗体to 53BP1
宿主	Rabbit
特异性	This antibody is specific for 53BP1.
经测试应用	<b>适用于:</b> IP, Flow Cyt, WB, ICC/IF, IHC-P
种属反应性	<b>与反应:</b> Mouse, Human
免疫原	Synthetic peptide representing a portion of human 53BP1 encoded in part by exons 11 and 12 (LocusLink ID 7158).
阳性对照	U205, HeLa, 293T, MO59K cell lysates (human) and MEF lysates (mouse).

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.00 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab36823** in the following tested applications.

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

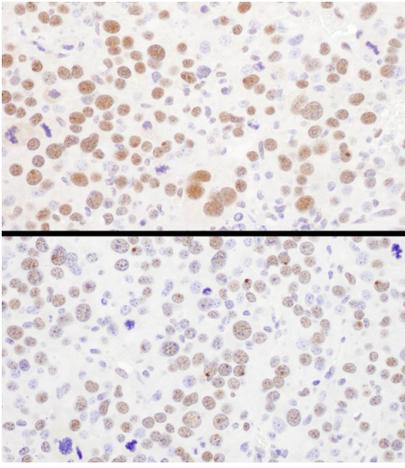
应用	Ab评论	说明
IP		Use at 2-10 µg/mg of lysate.

应用	Ab评论	说明
Flow Cyt		Use a concentration of 1.5 µg/ml. 1.5 µg/ml in a 150 µl reaction.  <a href="#">ab171870</a> - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★	1/10000 - 1/25000. Detects a band of approximately 220 kDa (predicted molecular weight: 214 kDa).
ICC/IF	★★★★★	1/100 - 1/500.
IHC-P	★★★★★	1/1000 - 1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## 靶标

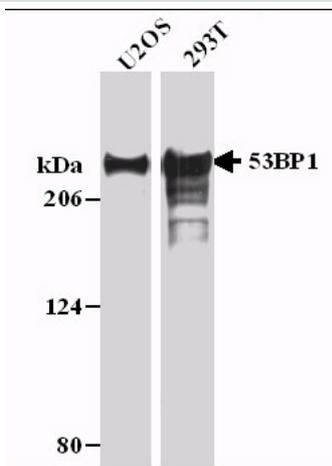
<b>功能</b>	May have a role in checkpoint signaling during mitosis. Enhances TP53-mediated transcriptional activation. Plays a role in the response to DNA damage.
<b>疾病相关</b>	Note=A chromosomal aberration involving TP53BP1 is found in a form of myeloproliferative disorder chronic with eosinophilia. Translocation t(5;15)(q33;q22) with PDGFRB creating a TP53BP1-PDGFRB fusion protein.
<b>序列相似性</b>	Contains 2 BRCT domains.
<b>翻译后修饰</b>	Asymmetrically dimethylated on Arg residues by PRMT1. Methylation is required for DNA binding. Phosphorylated at basal level in the absence of DNA damage. Hyper-phosphorylated in an ATM-dependent manner in response to DNA damage induced by ionizing radiation. Hyper-phosphorylated in an ATR-dependent manner in response to DNA damage induced by UV irradiation.
<b>细胞定位</b>	Nucleus. Chromosome > centromere > kinetochore. Associated with kinetochores. Both nuclear and cytoplasmic in some cells. Recruited to sites of DNA damage, such as double strand breaks. Methylation of histone H4 at 'Lys-20' is required for efficient localization to double strand breaks.

## 图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP1 antibody (ab36823)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse renal cell carcinoma tissue labelling 53BP1 with ab36823 at 1/1000 (1µg/ml). Detection: DAB.



Western blot - Anti-53BP1 antibody (ab36823)

**All lanes :** Anti-53BP1 antibody (ab36823) at 1/1000 dilution

**Lane 1 :** U2OS cell lysate

**Lane 2 :** 293T cell lysate

Lysates/proteins at 20 µg per lane.

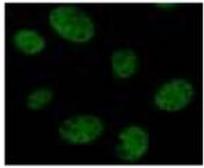
Developed using the ECL technique.

**Predicted band size:** 214 kDa

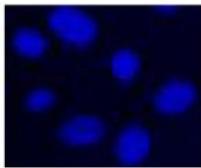
**Observed band size:** 220 kDa

[why is the actual band size different from the predicted?](#)

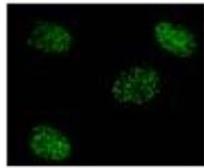
**Exposure time:** 5 seconds



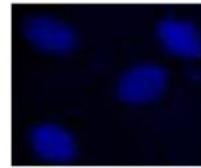
MEF (53BP1)



MEF (DAPI)



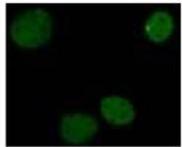
MEF + 10 Gy (53BP1)



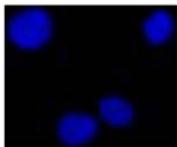
MEF + 10 Gy (DAPI)

Immunocytochemistry/ Immunofluorescence - Anti-53BP1 antibody (ab36823)

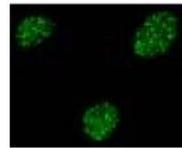
Ab36823, at a dilution of 1/100, staining 53BP1 foci in proliferating MEFs, both normal and exposed to 10 Gy of IR and double color immunofluorescence. Staining was for 2 hours.



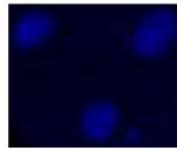
MO59K cells (53BP1)



MO59K cells (DAPI)



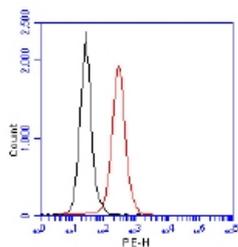
MO59K + 10 Gy (53BP1)



MO59K cell + 10 Gy (DAPI)

Immunocytochemistry/ Immunofluorescence - Anti-53BP1 antibody (ab36823)

Ab36823, at a dilution of 1/100, staining 53BP1 foci in proliferating MO59K cells, both normal and exposed to 10 Gy of IR and double color immunofluorescence. Staining was for 2 hours.



Flow Cytometry - Anti-53BP1 antibody (ab36823)

Flow Cytometry: 53BP1 Antibody [ab36823] - Flow cytometric detection of 53bp1. 1 million Jurkat cells were fixed, permeabilized, and stained with 1.5 mcg/ml anti-53bp1 ab36823 in a 150 mcl reaction. Isotype control (black), anti-53bp1 (red).

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