

Product datasheet

Anti-53BP1 antibody ab36823

★★★★☆ 11 Abreviews 55 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	适用于: IP, Flow Cyt, WB, ICC/IF, IHC-P
种属反应性	与反应: 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.

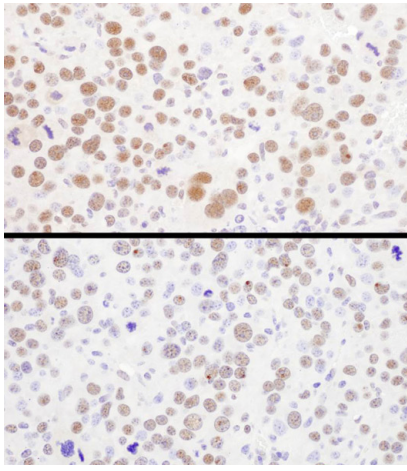
应用	Ab评论	说明
IP		Use at 2-10 µg/mg of lysate.

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. ab171870 - 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

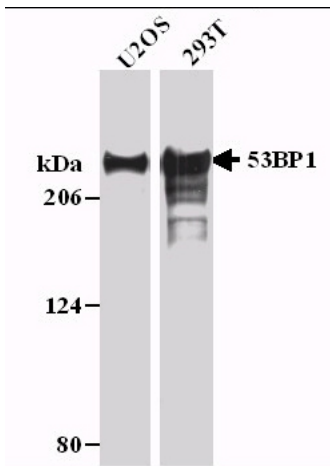
功能	May have a role in checkpoint signaling during mitosis. Enhances TP53-mediated transcriptional activation. Plays a role in the response to DNA damage.
疾病相关	Note=A chromosomal aberration involving TP53BP1 is found in a form of myeloproliferative disorder chronic with eosinophilia. Translocation t(5;15)(q33;q22) with PDGFRB creating a TP53BP1-PDGFRB fusion protein.
序列相似性	Contains 2 BRCT domains.
翻译后修饰	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.
细胞定位	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) analysis of mouse renal cell carcinoma tissue labelling 53BP1 with ab36823 at 1/1000 (1 µg/ml).
Detection: DAB.

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



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

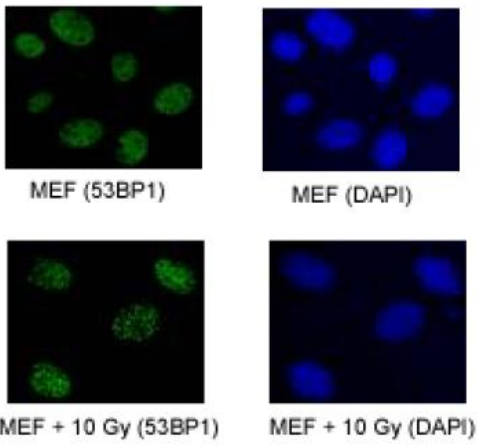
Lysates/proteins at 20 µg per lane.

Developed using the ECL technique.

Predicted band size: 214 kDa

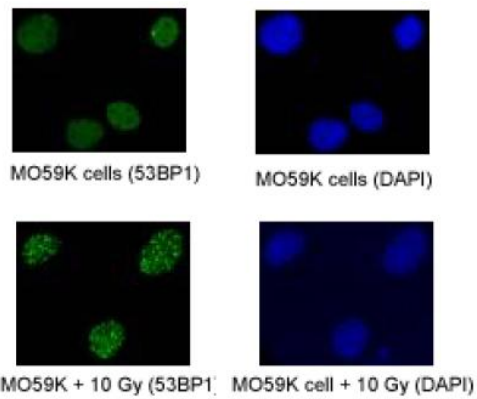
Observed band size: 220 kDa

Exposure time: 5 seconds



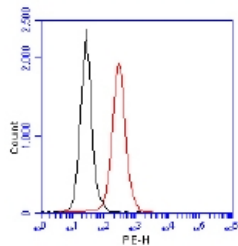
Immunocytochemistry/ Immunofluorescence - Anti-53BP1 antibody (ab36823)

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.



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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