abcam

Product datasheet

Anti-53BP1 antibody [BL-250-1H11] ab243868

Recombinant

5 Images

Overview

Product name Anti-53BP1 antibody [BL-250-1H11]

Description Rabbit monoclonal [BL-250-1H11] to 53BP1

Host species Rabbit

Tested applications

Suitable for: IP, WB, IHC-P

Species reactivity

Reacts with: Mouse, Human

Immunogen Synthetic peptide within Human 53BP1 aa 350-400. The exact sequence is proprietary.

NP_005648.1 and Gene ID 7158.

Database link: Q12888

Positive control WB: HeLa, HEK-293T, MCF7, HepG2, A549, SW620, SK-MEL-28, Jurkat whole cell lysates.

IHC: mouse renal cell carcinoma, human colon carcinoma IP: HEK-293T (Human epithelial cell

line from embryonic kidney transformed with large T antigen) whole cell lysate

General notes

This product is sold under License from Bethyl Laboratories, Inc.

Properties

Form Liquid

Storage instructions 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.

Storage buffer pH: 7.8

Preservative: 0.09% Sodium azide

Constituents: 98% Borate buffered saline, 0.1% BSA

Purification notes Recombinant antibody was purified from cell culture supernatant.

Clonality Monoclonal
Clone number BL-250-1H11

Isotype IgG

Applications

The Abpromise guarantee

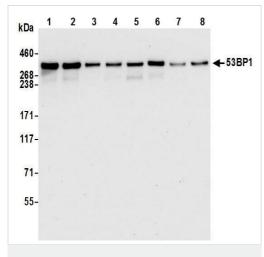
Our <u>Abpromise guarantee</u> covers the use of ab243868 in the following tested applications.

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

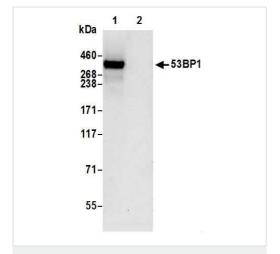
Application	Abreviews	Notes
IP		Use at an assay dependent concentration. Use 20µl/mg lysate.
WB		1/1000.
IHC-P		1/100 - 1/500. Epitope retrieval with citrate buffer pH6.0 is recommended for Formalin-fixed, paraffin-embedded tissue sections

Target		
Function	May have a role in checkpoint signaling during mitosis. Enhances TP53-mediated transcriptional activation. Plays a role in the response to DNA damage.	
Involvement in disease	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.	
Sequence similarities	Contains 2 BRCT domains.	
Post-translational modifications	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.	
Cellular localization	Nucleus. Chromosome > centromere > kinetochore. Associated with kinetochores. Both nuclear and cytoplasmic in some cells. Recruited to sites of DNA damage, such as double stand breaks. Methylation of histone H4 at 'Lys-20' is required for efficient localization to double strand breaks.	

Images



Western blot - Anti-53BP1 antibody [BL-250-1H11] (ab243868)



Immunoprecipitation - Anti-53BP1 antibody [BL-250-1H11] (ab243868)

Western blot analysis using ab243868 at 1/1000 dilution.

Lane 1: HeLa whole cell lysate (15 µg).

Lane 2: HEK-293T whole cell lysate (15 µg).

Lane3: MCF7 whole cell lysate (15 µg).

Lane 4: HepG2 whole cell lysate (15 µg).

Lane 5: A549 whole cell lysate (15 µg).

Lane 6: SW620 whole cell lysate (15 µg).

Lane 7: SK whole cell lysate (15 µg).

Lane 8: Jurkat whole cell lysate (15 µg).

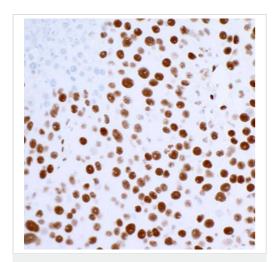
A HRP-conjugated goat anti-rabbit lgG antibody was used as the secondary. Detection: chemiluminescence with an exposure time of 10 seconds

53BP1 was immunoprecipitated from 1 mg HEK-293T whole cell lysate with ab243868 at 20 μ l per reaction Western blot was performed on the immunoprecipitate using ab243868 at 1/1000 dilution.

Lane 1: ab243868 IP in HEK-293T cell lysate.

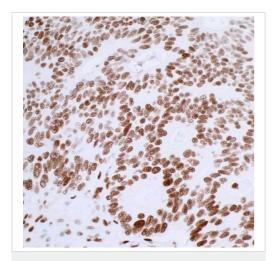
Lane 2: Contol IgG in HEK-293T cell lysate.

Detection: Chemiluminescence with an exposure time of 10 seconds.



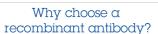
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-53BP1 antibody [BL-250-1H11] (ab243868)

Formalin-fixed, paraffin-embedded mouse renal cell carcinoma stained using ab243868 at 1/250 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit IgG was used as the secondary. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-53BP1 antibody [BL-250-1H11] (ab243868)

Formalin-fixed, paraffin-embedded human colon carcinoma tissue stained using ab243868 at 1/250 dilution in immunohistochemical analysis. A HRP-conjugated goat antirabbit IgG was used as the secondary. DAB staining.





Research with confidence
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Long-term and scalable supply
Recombinant technology





Animal-free production

Anti-53BP1 antibody [BL-250-1H11] (ab243868)

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