

## Product datasheet

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

Recombinant

3 Images

### Overview

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<b>Product name</b>	Anti-53BP1 antibody [BL-250-1H11]
<b>Description</b>	Rabbit monoclonal [BL-250-1H11] to 53BP1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human 53BP1 aa 350-400. The exact sequence is proprietary. NP_005648.1 and Gene ID 7158. Database link: <a href="#">Q12888</a>
<b>General notes</b>	<p>This product is sold under License from Bethyl Laboratories, Inc.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
<b>Purification notes</b>	Recombinant antibody was purified from cell culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	BL-250-1H11
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab243868** in the following tested applications.

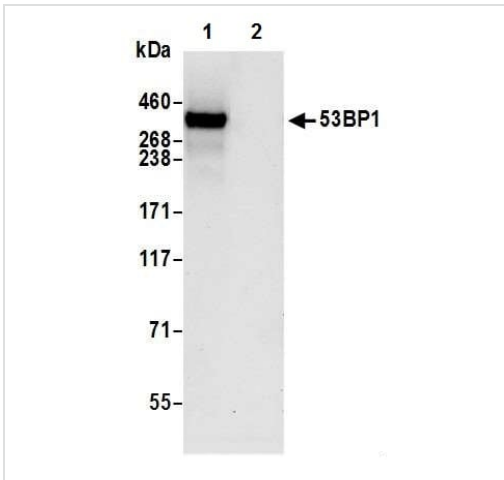
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration. Use 20µl/mg lysate.
WB		1/1000.

## Target

<b>Function</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>Involvement in disease</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>Sequence similarities</b>	Contains 2 BRCT domains.
<b>Post-translational modifications</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>Cellular localization</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.

## Images



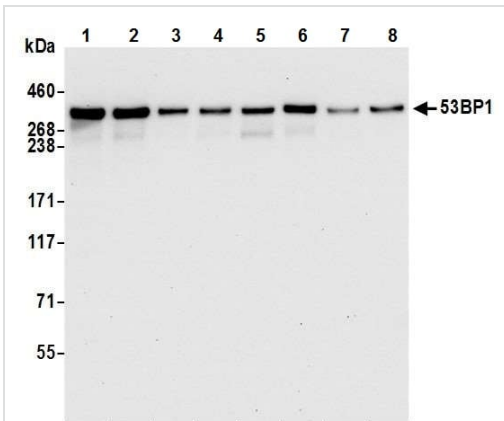
Immunoprecipitation - Anti-53BP1 antibody [BL-250-1H11] (ab243868)

53BP1 was immunoprecipitated from 1 mg HEK-293T whole cell lysate with ab243868 at 20  $\mu$ 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: Control IgG in HEK-293T cell lysate.

Detection: Chemiluminescence with an exposure time of 10 seconds.



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

Western blot analysis using ab243868 at 1/1000 dilution.

Lane 1: HeLa whole cell lysate (15  $\mu$ g).

Lane 2: HEK-293T whole cell lysate (15  $\mu$ g).

Lane 3: MCF7 whole cell lysate (15  $\mu$ g).

Lane 4: HepG2 whole cell lysate (15  $\mu$ g).

Lane 5: A549 whole cell lysate (15  $\mu$ g).

Lane 6: SW620 whole cell lysate (15  $\mu$ g).

Lane 7: SK whole cell lysate (15  $\mu$ g).

Lane 8: Jurkat whole cell lysate (15  $\mu$ g).

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

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

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

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

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- Response to your inquiry within 24 hours
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