abcam

# Product datasheet

# Anti-53BP2/ASPP2/BBP antibody ab70548

3 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-53BP2/ASPP2/BBP antibody |
| **Description** | Rabbit polyclonal to 53BP2/ASPP2/BBP |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB, IP, IHC-P |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Horse, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan |
| **Immunogen** | Synthetic peptide corresponding to Human 53BP2/ASPP2/BBP.<br>Database link: NP_001026855.1 |
| **Positive control** | Whole cell lysate from HeLa or 293T cells |
| **General notes** | This product was previously labelled as 53BP2/ASPP2 |

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.

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

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| **Storage buffer** | pH: 6.8<br>Preservative: 0.09% Sodium azide<br>Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our Abpromise guarantee covers the use of ab70548 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 |
|---|---|---|
| **WB** | | 1/2000 - 1/10000. Detects a band of approximately 170 kDa (predicted molecular weight: 125 kDa). |
| **IP** | | Use at 2-5 µg/mg of lysate. |
| **IHC-P** | | Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

## Target

**Function** Regulator that plays a central role in regulation of apoptosis and cell growth via its interactions. Regulates TP53 by enhancing the DNA binding and transactivation function of TP53 on the promoters of proapoptotic genes in vivo. Inhibits the ability of APPBP1 to conjugate NEDD8 to CUL1, and thereby decreases APPBP1 ability to induce apoptosis. Impedes cell cycle progression at G2/M. Its apoptosis-stimulating activity is inhibited by its interaction with DDX42.

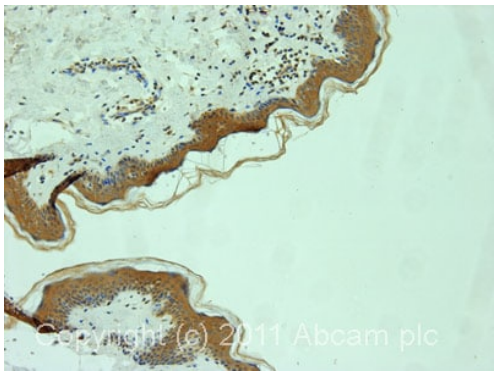
**Tissue specificity** Widely expressed. Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocyte. Reduced expression in breast carcinomas expressing a wild-type TP53 protein. Overexpressed in lung cancer cell lines.

**Sequence similarities** Belongs to the ASPP family.
Contains 2 ANK repeats.
Contains 1 SH3 domain.

**Domain** The ankyrin repeats and the SH3 domain are required for a specific interactions with TP53.

**Cellular localization** Cytoplasm > perinuclear region. Nucleus. Predominantly found in the perinuclear region. Some small fraction is nuclear. Sequester in the cytoplasm on overexpression of DDX42.

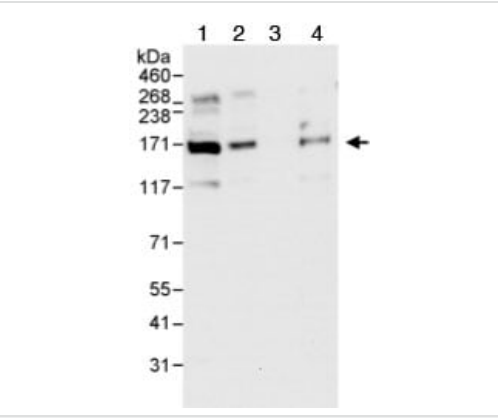
## Images




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP2/ASPP2/BBP antibody (ab70548)

IHC image of ab70548 staining in normal human skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab70548, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.




Western blot - Anti-53BP2/ASPP2/BBP antibody (ab70548)

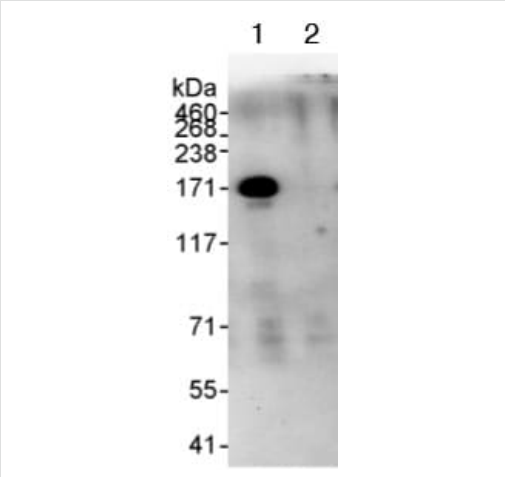
**All lanes :** Anti-53BP2/ASPP2/BBP antibody (ab70548) at 0.04 µg/ml

**Lane 1 :** Whole cell lysate from HeLa cells at 50 µg
**Lane 2 :** Whole cell lysate from HeLa cells at 15 µg
**Lane 3 :** Whole cell lysate from HeLa cells at 5 µg
**Lane 4 :** Whole cell lysate from 293T cells at 50 µg

Developed using the ECL technique.

**Predicted band size:** 125 kDa
**Observed band size:** 170 kDa

**Exposure time:** 30 seconds




Immunoprecipitation - Anti-53BP2/ASPP2/BBP antibody (ab70548)

1mg whole cell lysate from HeLa cells was immunoprecipitated with ab70548 at 3ug/mg of lysate(lane 1) or a control IgG (lane 2). Fr the subsequent blot, 20% of immnunoprecipitate was loaded per lane, and probed with ab70548 at 1ug/ml. Detection: chemiluminescence with exposure time of 30 seconds



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