

Product datasheet

Anti-53BP2/ASPP2 antibody ab70548

3 Images

Overview

Product name	Anti-53BP2/ASPP2 antibody
Description	Rabbit polyclonal to 53BP2/ASPP2
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Horse, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide mapping to a region between residue 425 and 475 of human 53BP2/ASPP2 using the numbering given in entry NP_001026855.1
Positive control	Whole cell lysate from HeLa or 293T cells

Properties

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

Applications

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.

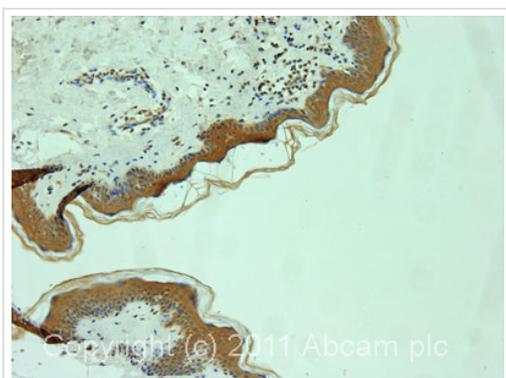
Application	Abreviews	Notes
WB		1/2000 - 1/10000. Detects a band of approximately 170 kDa (predicted molecular weight: 125 kDa).
IP		Use at 2-5 µg/mg of lysate.

Application	Abreviews	Notes
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.

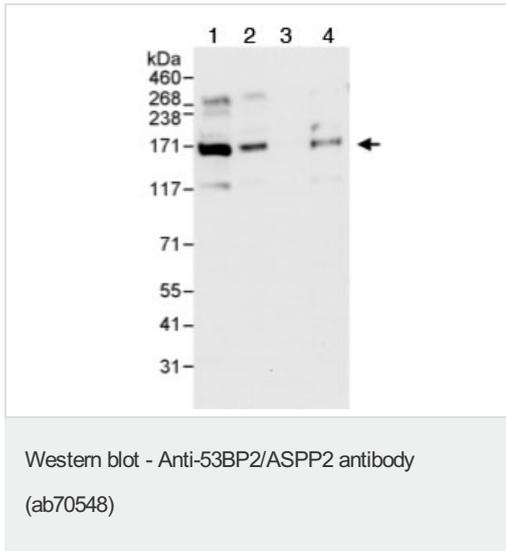
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP2/ASPP2 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.



All lanes : Anti-53BP2/ASPP2 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

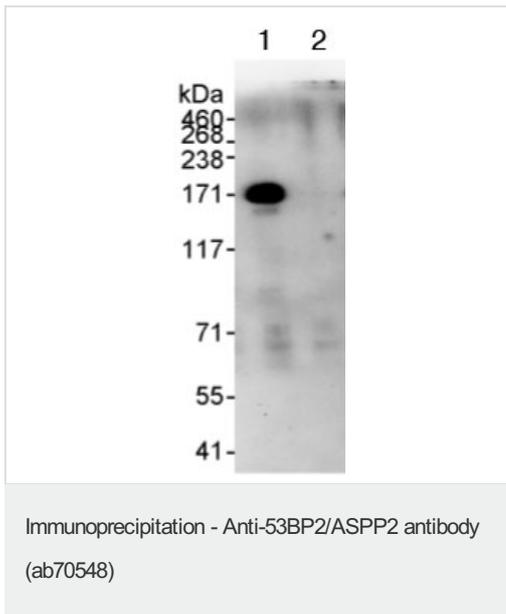
Developed using the ECL technique.

Predicted band size: 125 kDa

Observed band size: 170 kDa

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

Exposure time: 30 seconds



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

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