

Product datasheet

Anti-53BP2/ASPP2/BBP antibody [EPR13837] ab181377

Recombinant RabMAb

[7 References](#) [9 Images](#)

Overview

Product name	Anti-53BP2/ASPP2/BBP antibody [EPR13837]
Description	Rabbit monoclonal [EPR13837] to 53BP2/ASPP2/BBP
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human 53BP2/ASPP2/BBP aa 50-150. The exact sequence is proprietary. Database link: Q13625
Positive control	WB: Rat and mouse brain lysates; MCF-7, Jurkat and Saos-2 cell lysates IHC-P: Human kidney, spleen and testis tissue; Rat and mouse liver tissue
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13837

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181377 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		1/10000 - 1/50000. Detects a band of approximately 150 kDa (predicted molecular weight: 126 kDa).
IHC-P		1/1000. For unpurified use at 1/100 - 1/250. Perform heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0).

Application notes

Is unsuitable for ICC/IF.

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.

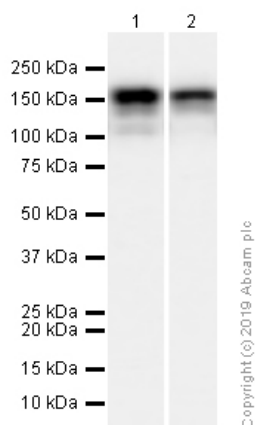
Domain

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



Western blot - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

All lanes : Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377) at 1/10000 dilution (Purified)

Lane 1 : Mouse brain lysates

Lane 2 : Rat brain lysates

Lysates/proteins at 20 µg per lane.

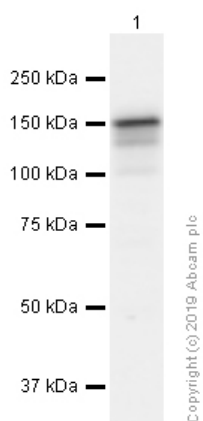
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 126 kDa

Observed band size: 150 kDa

The molecular weight observed is consistent with what has been described in PMID: 14766226



Western blot - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377) at 1/10000 dilution (Purified) + MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates at 15 µg

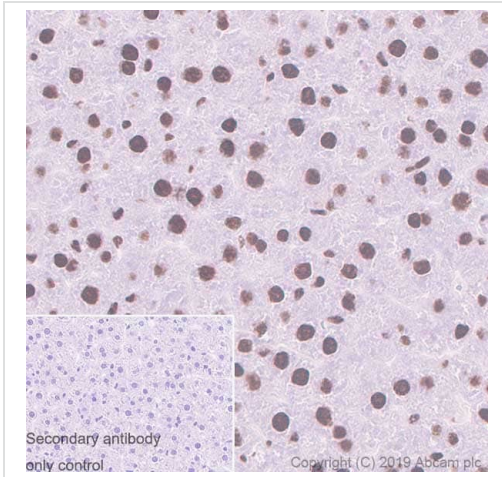
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 126 kDa

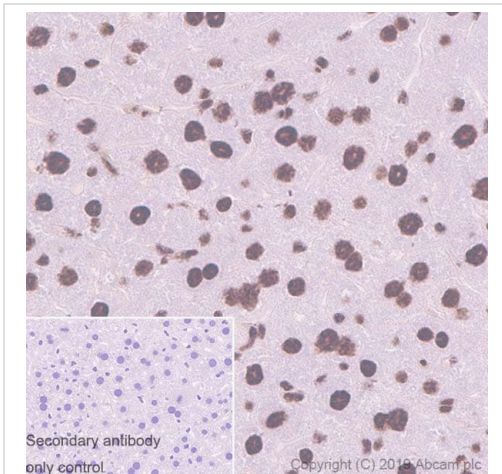
Observed band size: 150 kDa

The molecular weight observed is consistent with what has been described in PMID: 14766226



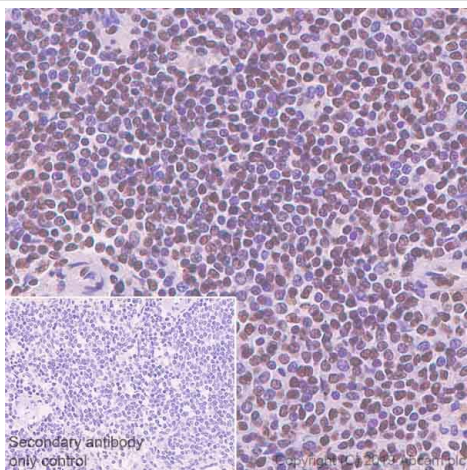
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat liver tissue sections labeling 53BP2/ASPP2/BBP with purified ab181377 at 1/1000 dilution (0.15 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



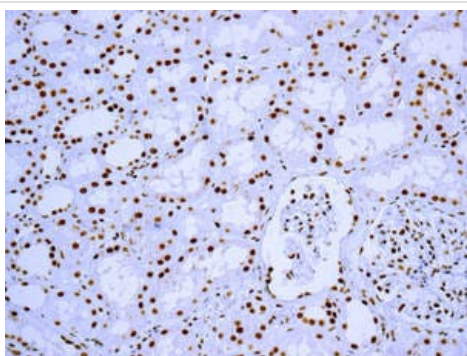
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue sections labeling 53BP2/ASPP2/BBP with purified ab181377 at 1/1000 dilution (0.15 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



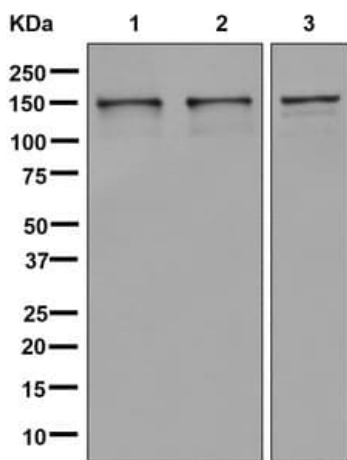
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue sections labeling 53BP2/ASPP2/BBP with purified ab181377 at 1/1000 dilution (0.15 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling 53BP2/ASPP2/BBP with ab181377 (unpurified) at a 1/100 dilution.



Western blot - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

All lanes : Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377) at 1/10000 dilution (unpurified)

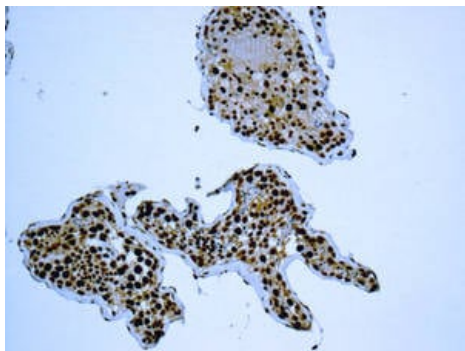
Lane 1 : Jurkat cell lysate

Lane 2 : Saos-2 cell lysate

Lane 3 : MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 126 kDa



Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling 53BP2/ASPP2/BBP with ab181377 (unpurified) at a 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

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-53BP2/ASPP2/BBP antibody [EPR13837] (ab181377)

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

Our Promise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

-
- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors