


Product datasheet

Anti-XBP1 antibody ab37152

★★★★★ [28 Abreviews](#) [146 References](#) [13 Images](#)

Overview

Product name	Anti-XBP1 antibody
Description	Rabbit polyclonal to XBP1
Host species	Rabbit
Specificity	XBP-1 antibody will recognize both isoforms (non-spliced and spliced) of XBP-1.
Tested applications	Suitable for: IHC-P, IHC-Fr, ICC, IHC (PFA fixed), WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Cow 
Immunogen	Synthetic peptide corresponding to Human XBP1 (N terminal). Synthetic peptide corresponding to 18 amino acids near to the N terminus of the human XBP1 protein. The immunogen is located within amino acids 40 - 90. Database link: P17861 (Peptide available as ab39910)
Positive control	WB: HepG2 cell lysate, A549 cell lysate. IHC-P: Human liver and non-lesional skin tissue; Mouse testis and spleen tissue, rat liver tissue. ICC/IF: HepG2 cells.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

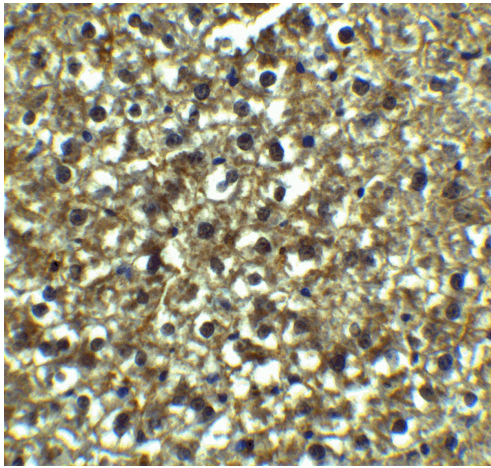
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab37152 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (12)	Use a concentration of 5 µg/ml.
IHC-Fr		Use at an assay dependent concentration. PubMed: 20028872
ICC		Use a concentration of 10 µg/ml.
IHC (PFA fixed)		Use a concentration of 20 µg/ml.
WB	★★★★★ (11)	Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 29 kDa. Can be blocked with Human XBP1 peptide (ab39910) . Human samples only. Not batch tested in mouse or rat, please see AbReviews for more information. Use at a concentration of 1 - 2 µg/ml. Predicted molecular weight: 29 kDa (isoform 1) and 40 kD (isoform 2). Can be blocked with XBP1 peptide (ab39910) .
ICC/IF	★★★★★ (3)	Use a concentration of 20 µg/ml.

Target

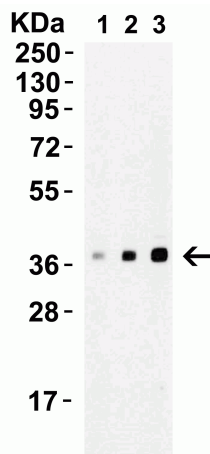
Function	Transcription factor essential for hepatocyte growth, the differentiation of plasma cells, the immunoglobulin secretion, and the unfolded protein response (UPR). Acts during endoplasmic reticulum stress (ER) by activating unfolded protein response (UPR) target genes via direct binding to the UPR element (UPRE). Binds DNA preferably to the CRE-like element 5'-GATGACGTG[TG]N(3)[AT]T-3', and also to some TPA response elements (TRE). Binds to the HLA DR-alpha promoter. Binds to the Tax-responsive element (TRE) of HTLV-I.
Involvement in disease	Genetic variations in XBP1 could be associated with susceptibility to major affective disorder type 7 (MAFD7) [MIM:612371]. Major affective disorders represent a class of mental disorders characterized by a disturbance in mood as their predominant feature.
Sequence similarities	Belongs to the bZIP family. Contains 1 bZIP domain.
Cellular localization	Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XBP1 antibody (ab37152)

Immunohistochemical analysis of paraffin-embedded Rat Liver Tissue using ab37152 at 5 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Western blot - Anti-XBP1 antibody (ab37152)

Lane 1 : Anti-XBP1 antibody (ab37152) at 0.25 µg/ml

Lane 2 : Anti-XBP1 antibody (ab37152) at 0.5 µg/ml

Lane 3 : Anti-XBP1 antibody (ab37152) at 1 µg/ml

All lanes : A549 cell lysate

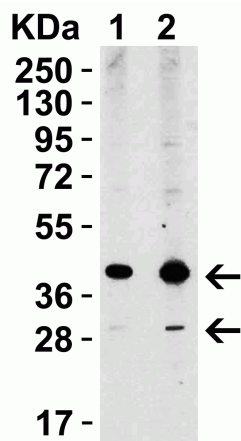
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Predicted band size: 29 kDa

1h incubation at RT in 5% NFDM/TBST.



Western blot - Anti-XBP1 antibody (ab37152)

Lane 1 : Anti-XBP1 antibody (ab37152) at 1 µg/ml

Lane 2 : Anti-XBP1 antibody (ab37152) at 2 µg/ml

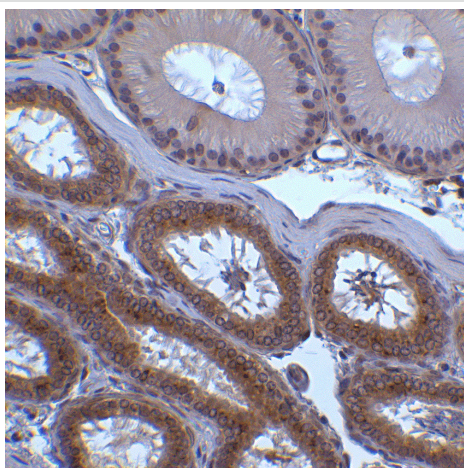
All lanes : HepG2 cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

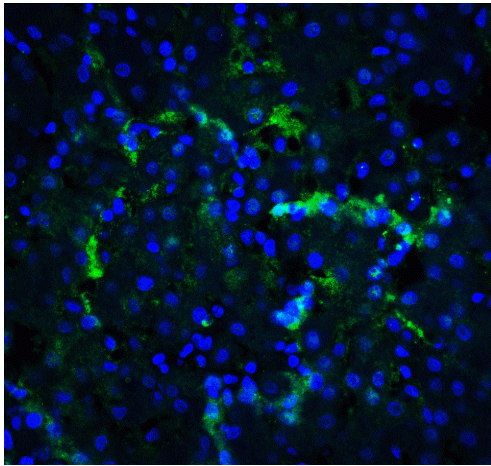
All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Predicted band size: 29 kDa



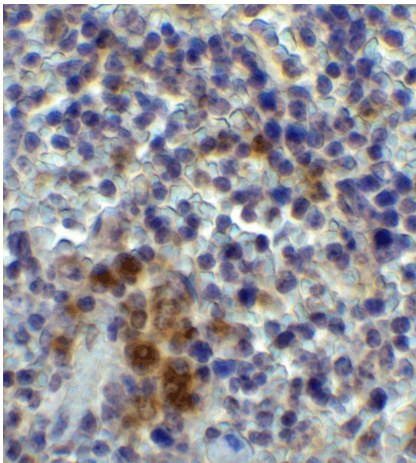
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XBP1 antibody (ab37152)

Immunohistochemistry of mouse testis cells labeling XBP1 with Anti-XBP1 antibody (ab37152) at 2µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



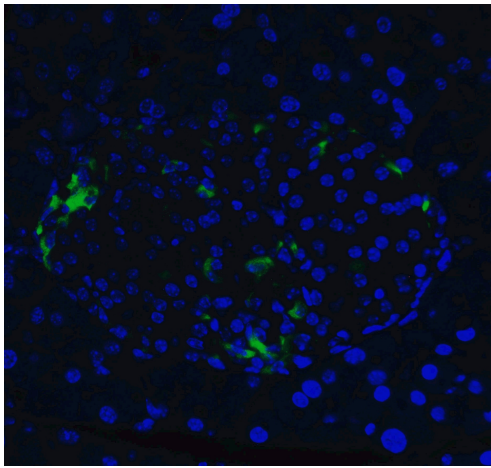
Immunohistochemistry (PFA fixed) - Anti-XBP1 antibody (ab37152)

Immunohistochemistry of human liver tissue labeling XBP1 with Anti-XBP1 antibody (ab37152) at 20µg/ml. followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green). DAPI staining (Blue).



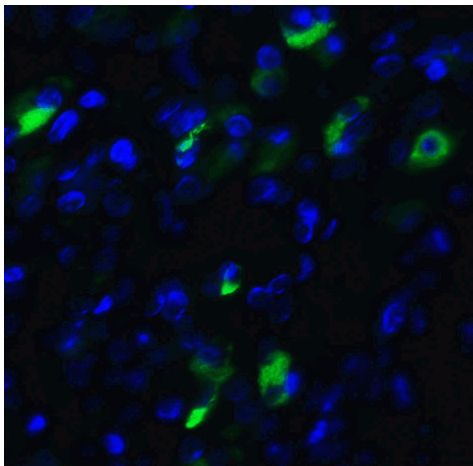
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XBP1 antibody (ab37152)

Immunohistochemistry of mouse spleen cells labeling XBP1 with Anti-XBP1 antibody (ab37152) at 2µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



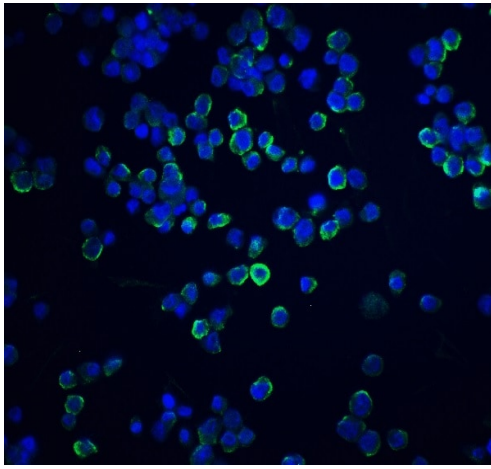
Immunohistochemistry of mouse pancreas tissue labeling XBP1 with Anti-XBP1 antibody (ab37152) at 20µg/ml. followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green). DAPI staining (Blue).

Immunohistochemistry (PFA fixed) - Anti-XBP1 antibody (ab37152)



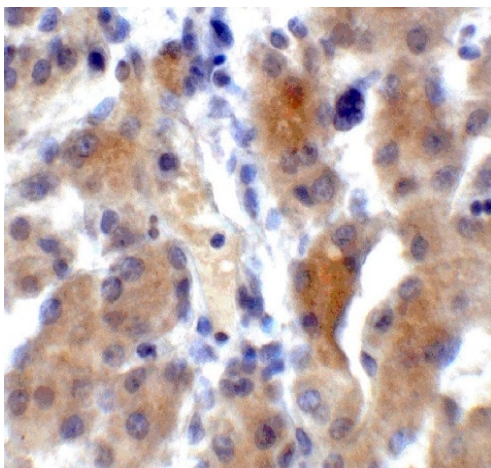
Immunohistochemistry of human pancreas tissue labeling XBP1 with Anti-XBP1 antibody (ab37152) at 20µg/ml. followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green). DAPI staining (Blue).

Immunohistochemistry (PFA fixed) - Anti-XBP1 antibody (ab37152)



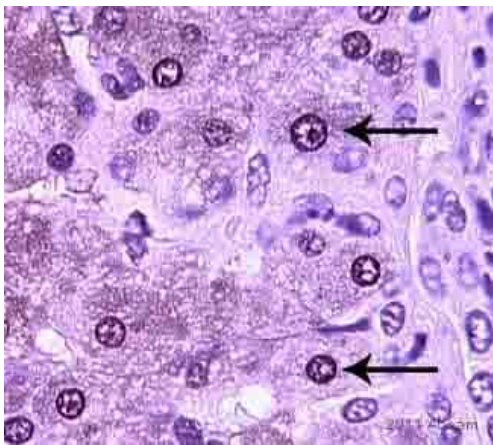
Immunocytochemistry of HepG2 cells labeling XBP1 with Anti-XBP1 antibody (ab37152) at 20µg/ml. Blue: DAPI staining.

Immunocytochemistry/ Immunofluorescence - Anti-XBP1 antibody (ab37152)



Immunohistochemistry (Formalin-fixed paraffin embedded sections) of human liver tissue labeling XBP1 with Anti-XBP1 antibody (ab37152) at 5µg/ml.

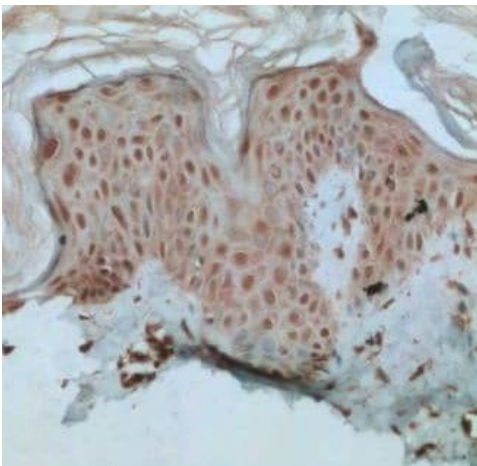
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XBP1 antibody (ab37152)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XBP1 antibody (ab37152)

Image courtesy of an anonymous Abreview.

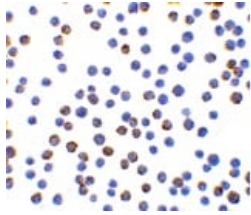
ab37152 staining XBP1 in human liver tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed using Citrate-EDTA antigen retrieval buffer and microwave. Heating was performed in the microwave 3 minutes on high until boiling, 6 minutes on 20% power. Samples were then blocked for 15 minutes at 27°C followed by incubation with the primary antibody at a 1/100 dilution for 12 hours at 4°C. An undiluted HRP-conjugated rat polyclonal was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XBP1 antibody (ab37152)

Image from Ren Yunqing et al., PLoS Genet. 2009 June; 5(6): e1000523 (Fig 6C).

ab37152 at 1/200 dilution staining XBP1 in human non-lesional skin tissue sections by Immunohistochemistry (Formalin/ PFA fixed paraformaldehyde tissue sections). A biotin labelled secondary was used at 1/100 dilution. Diaminobenzidine (DAB) was used for staining development in a ABC staining Kit and the sections were counterstained with haematoxylin.



Immunocytochemistry - Anti-XBP1 antibody
(ab37152)

Immunocytochemistry of XBP-1 in HepG2 cells with ab37152 at 10
ug/mL

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