

# Product Datasheet

## XBP1 Antibody - BSA Free NBP1-77253

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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Updated 10/23/2024 v.20.1

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**NBP1-77253**

XBP1 Antibody - BSA Free

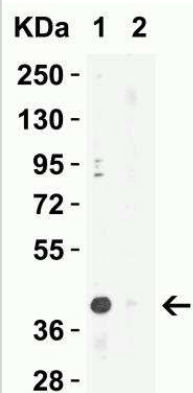
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	28, 40 kDa

Product Description	
Host	Rabbit
Gene ID	7494
Gene Symbol	XBP1
Species	Human, Mouse, Rat
Specificity/Sensitivity	Human XBP1 has two isoforms, including isoform 1 (261aa, 29kD) and isoform 2 (376aa, 40kD). Mouse XBP1 also has two isoforms, including isoform 1 (267aa, 29.6kD) and isoform 2 (371aa, 40kD). And Rat XBP1 has two isoforms as well, including isoform 1 (267aa, 30kD) and isoform 2 (371aa, 40kD). NBP1-77253 can detect human, mouse and rat.
Immunogen	Antibody was raised against a peptide corresponding to 17 amino acids near the amino terminus of human XBP1. The immunogen is located within amino acids 40 - 90 of XBP1. Amino Acid Sequence: GLPQARKRQRLTHLSPE

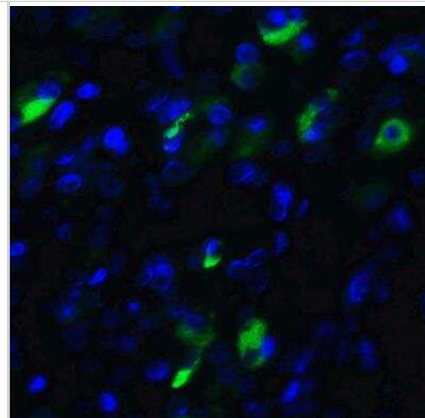
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.25-2 ug/mL, ELISA 1:100-1:2000, Immunohistochemistry 2-5 ug/ml, Immunocytochemistry/ Immunofluorescence 10-20 ug/ml, Immunohistochemistry-Paraffin 2-5 ug/mL

**Images**

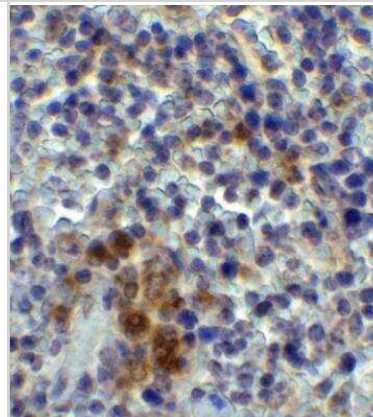
Western Blot: XBP1 Antibody [NBP1-77253] - Loading: 15 ug of lysates per lane. Antibodies: XBP-1 (1 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. (1) the absence and (2) the p



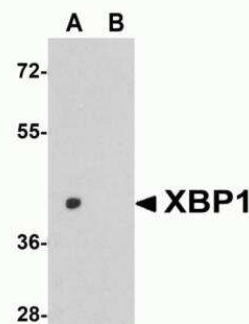
Immunocytochemistry/Immunofluorescence: XBP1 Antibody [NBP1-77253] - analysis of 4% paraformaldehydefixed human pancreas tissue labeling XBP-1 with this antibody at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



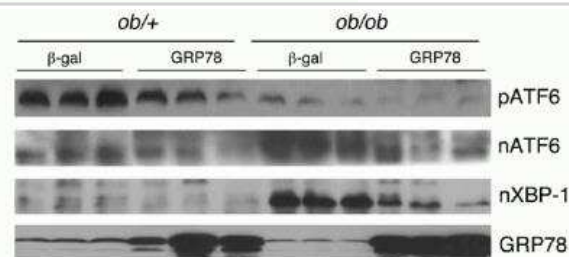
Immunohistochemistry-Paraffin: XBP1 Antibody [NBP1-77253] - analysis of paraffin-embedded mouse spleen tissue using anti-XBP-1 antibody at 2 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



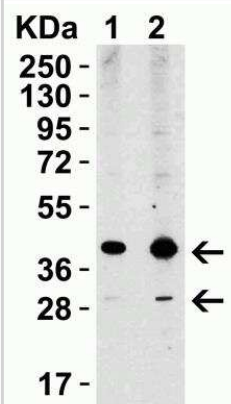
Western Blot: XBP1 Antibody [NBP1-77253] - Western Blot Validation in Human HepG2 Cell Lysate. Loading: 15 ug of lysates per lane. Antibodies: XBP-1 NBP1-77253 (1 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



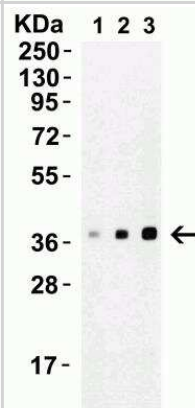
Western Blot: XBP1 Antibody [NBP1-77253] - *ob/+* and *ob/ob* mice were injected with an adenovirus encoding human GRP78 (Ad GRP78) and a control adenovirus encoding beta-gal (Ad beta-gal). Mature nuclear form of XBP-1 expression level was reduced in *ob/ob* mice with Ad GRP78 as compared to the control Ad beta-gal while there was no difference in *ob/+* mice.



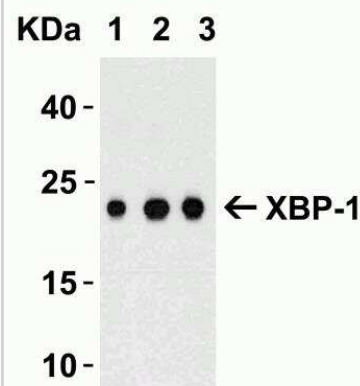
Western Blot: XBP1 Antibody [NBP1-77253] - Loading: 15 ug of HepG2 cell lysate Antibodies: XBP-1, 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane1: 1 ug/mL Lane2: 2 ug/mL



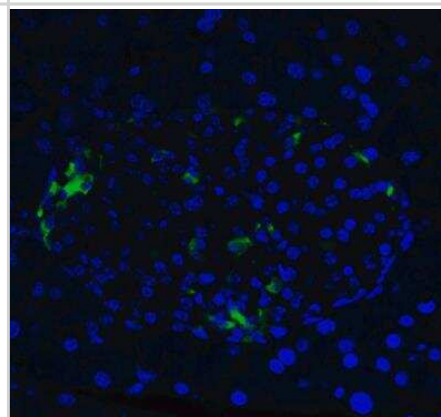
Western Blot: XBP1 Antibody [NBP1-77253] - Loading: 15 ug of A549 cell lysate Antibodies: XBP-1, 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane1: 0.25 ug/mL Lane2: 0.5 ug/mL Lane3: 1 ug/mL



Western Blot: XBP1 Antibody [NBP1-77253] - Loading: 100 ng of human XBP-1 recombinant protein per lane. Antibodies: XBP-1 (A: 0.5 ug/mL, B: 1 ug/mL and C: 2 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at

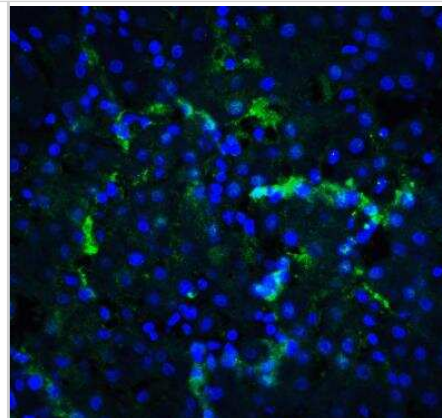


Immunocytochemistry/Immunofluorescence: XBP1 Antibody [NBP1-77253] - analysis of 4% paraformaldehyde fixed Human Liver Tissue labeling XBP-1 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue)

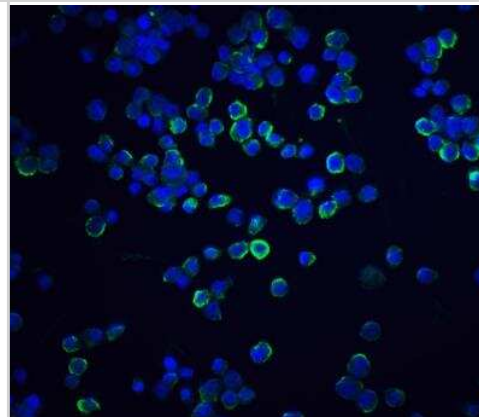




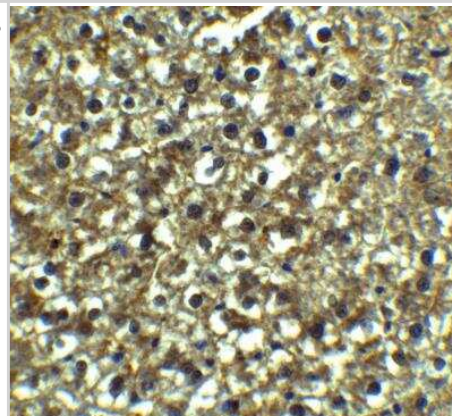
Immunocytochemistry/Immunofluorescence: XBP1 Antibody [NBP1-77253] - analysis of 4% paraformaldehydefixed human pancreas tissue labeling XBP-1 with this antibody at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



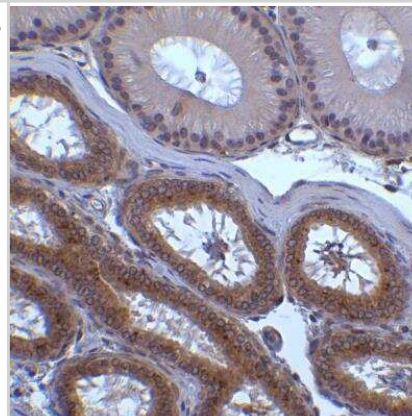
Immunocytochemistry/Immunofluorescence: XBP1 Antibody [NBP1-77253] - analysis of 4% paraformaldehydefixed HepG2 cells labeling XBP-1 with this antibody at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue)



Immunohistochemistry-Paraffin: XBP1 Antibody [NBP1-77253] - Analysis of paraffin-embedded Rat Liver Tissue using anti-XBP-1 antibody at 5 ug/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 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry-Paraffin: XBP1 Antibody [NBP1-77253] - Analysis of paraffin-embedded mouse testis tissue using anti-XBP-1 antibody at 2 ug/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 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



## Publications

Hu JM, Chang YL, Hsieh CC, Huang SM The Synergistic Cytotoxic Effects of GW5074 and Sorafenib by Impacting Mitochondrial Functions in Human Colorectal Cancer Cell Lines *Frontiers in oncology* 2022-06-07 [PMID: 35747833] (WB)

Liu Y, Xu D, Wang L et al. MBTPS2 exacerbates albuminuria in streptozotocin-induced type I diabetic nephropathy by promoting endoplasmic reticulum stress-mediated renal damage *Arch. Physiol. Biochem.* 2020-04-07 [PMID: 32255378]

Lee HJ, Kim JH, Hong S et al. Proteomics-based functional studies reveal that galectin-3 plays a protective role in the pathogenesis of intestinal Behcet's disease *Sci Rep* 2019-08-12 [PMID: 31406212] (WB, Mouse, Human)

Zhang W, Zhong W, Sun Q et al. Hepatic overproduction of 13- HODE due to ALOX15 upregulation contributes to alcohol-induced liver injury in mice. *Sci Rep* 2017-08-21 [PMID: 28827690] (WB, Mouse)





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### **Products Related to NBP1-77253**

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NBP1-77253PEP	XBP1 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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