

Product Datasheet

XBP1 Antibody (orb1240297)

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|-----------------------------|---|
| Catalog Number | orb1240297 |
| Category | Antibodies |
| Description | XBP1 Antibody |
| Target | XBP1 |
| Clonality | Polyclonal |
| Species/Host | Rabbit |
| Isotype | IgG |
| Conjugation | Unconjugated |
| Reactivity | Human, Mouse, Rat |
| Predicted Reactivity | Bovine |
| Form/Appearance | Liquid |
| Concentration | 1 mg/mL |
| Buffer/Preservatives | XBP-1 Antibody is supplied in PBS containing 0.02% sodium azide. |
| Purification | XBP-1 Antibody is affinity chromatography purified via peptide column. |
| Immunogen | Anti-XBP-1 antibody (orb1240297) was raised against a peptide corresponding to 17 amino acids near the amino terminus of human XBP-1. The immunogen is located within amino acids 40 - 90 of XBP-1. |
| UniProt ID | P17861 |
| MW | Predicted: 28/40kD Observed: 28/40 kD |

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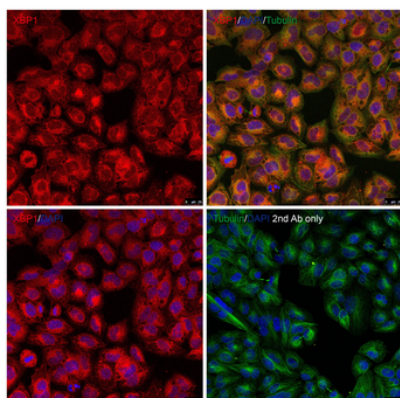
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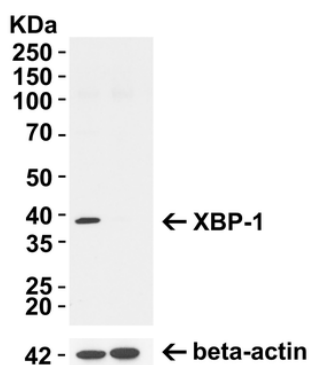
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| | |
|----------------------------|---|
| Tested applications | ELISA, ICC, IF, IHC-P, WB |
| Antibody Type | Primary Antibody |
| Modifications | None |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| NCBI | P17861 |
| Expiration Date | 12 months from date of receipt. |



Immunofluorescence Validation of XBP-1 in HeLa Cells. Immunofluorescent analysis of methanol-fixed HeLa cells labeling XBP-1 with orb1240297 at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/1000 dilution (red) and DAPI staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.



XBP-1 KO Validation in 293T Cells. Loading: 10 µg of lysate
Antibodies: XBP-1 orb1240297, 4 µg/mL and beta-actin, 1 µg/mL, 1 h incubation at RT in 5% NFD/MTBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

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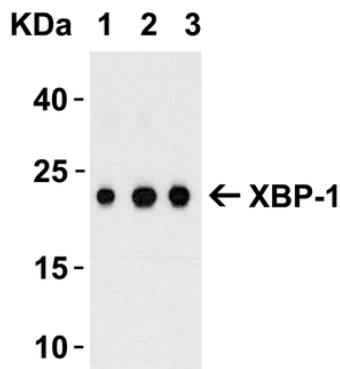
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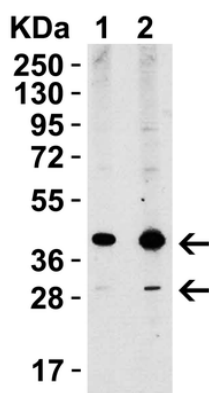
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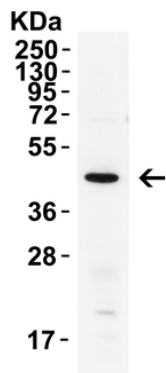
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Western Blot Validation with Recombinant Protein. Loading: 100 ng of human XBP-1 recombinant protein per lane. Antibodies: XBP-1 orb1240297 (A: 0.5 μ g/mL, B: 1 μ g/mL and C: 2 μ g/mL), 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 23kD.



Western Blot Validation of XBP-1 in HepG2 Cells. Loading: 15 μ g of HepG2 cell lysate Antibodies: XBP-1 orb1240297, 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane1: 1 μ g/mL Lane2: 2 μ g/mL.



Western Blot Validation in Mouse Pancreas Tissue. Loading: 15 μ g of lysates per lane. Antibodies: XBP-1, orb1240297 (4 μ g/mL), 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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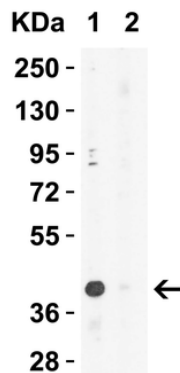
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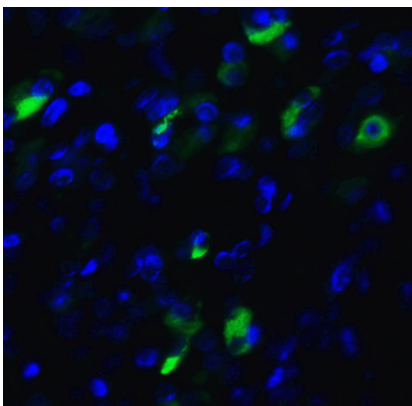
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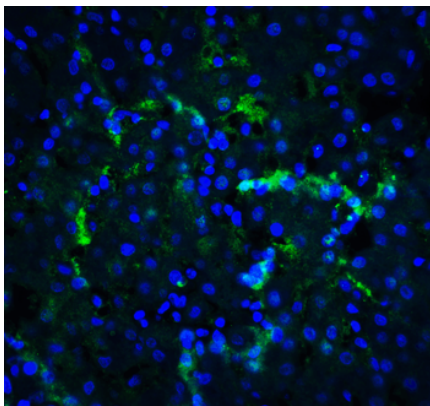
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Western Blot Validation in Rat Liver Tissue Lysate. Loading: 15 μ g of lysates per lane. Antibodies: XBP-1 orb1240297 (1 μ g/mL), 1 h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. (1) the absence and (2) the presence of blocking peptide.



Immunofluorescence Validation of XBP-1 in Human Pancreas Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human pancreas tissue labeling XBP-1 with orb1240297 at 20 μ g/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunofluorescence Validation of XBP-1 in Human Liver Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed Human Liver Tissue labeling XBP-1 with orb1240297 at 20 μ g/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).

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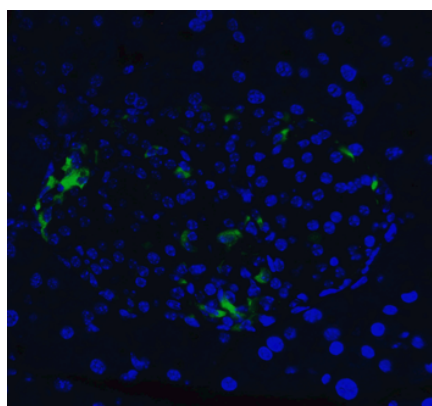
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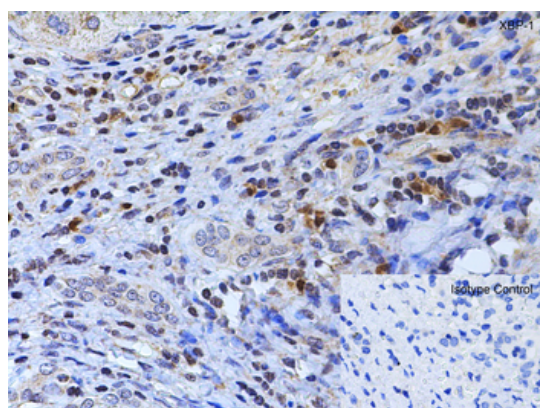
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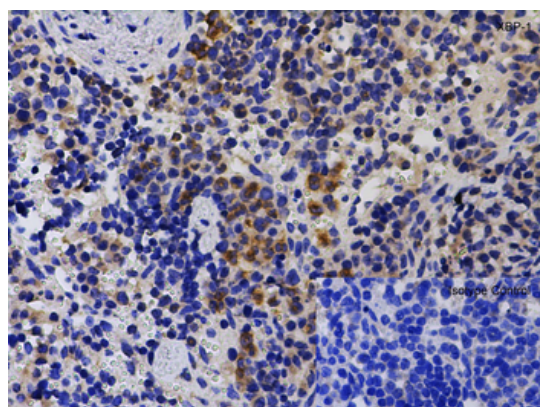
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Immunofluorescence Validation of XBP-1 in Mouse Pancreas Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse pancreas tissue labeling XBP-1 with orb1240297 at 20 $\mu\text{g}/\text{mL}$, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Immunohistochemistry Validation of XBP-1 in Human Liver Tissue. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-XBP-1 antibody (orb1240297) at 1 $\mu\text{g}/\text{ml}$. 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 Validation of XBP-1 in Mouse Spleen Tissue. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-XBP-1 antibody (orb1240297) at 1 $\mu\text{g}/\text{ml}$. 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.

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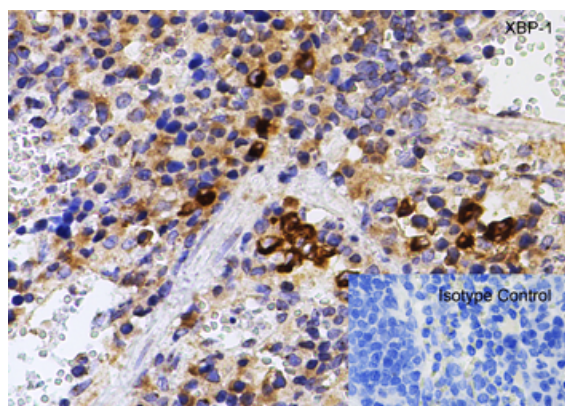
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Immunohistochemistry Validation of XBP-1 in Rat Spleen Tissue. Immunohistochemical analysis of paraffin-embedded rat spleen tissue using anti-XBP-1 antibody (orb1240297) at 1 µg /ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 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.

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