

Product Datasheet

IRE1 alpha [p Ser724] Antibody NB100-2323

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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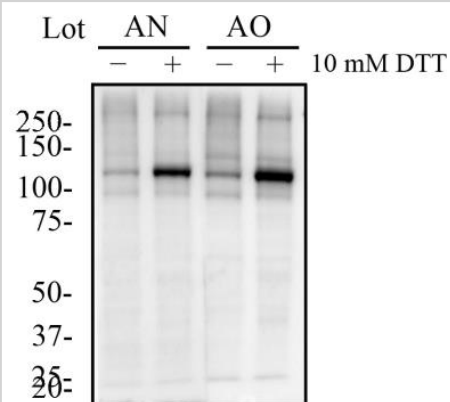


NB100-2323**IRE1 alpha [p Ser724] Antibody**

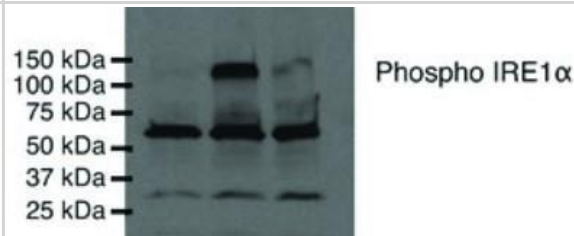
| Product Information | |
|------------------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | 1.0 mg/ml |
| Storage | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.025% Sodium Azide |
| Purity | Immunogen affinity purified |
| Buffer | PBS |
| Product Description | |
| Description | When detecting phospho-IRE1 Alpha (Ser-724) using NB100-2323, it is recommended to normalize its band intensity/immunoreactivity with total-IRE1 alpha. NB100-2324 and NB110-59971 can be used for the detection of endogenous total IRE1 alpha. |
| Host | Rabbit |
| Gene ID | 2081 |
| Gene Symbol | ERN1 |
| Species | Human, Mouse, Rat, Porcine, Mammal, Monkey, Primate, Rabbit |
| Reactivity Notes | Mammal reactivity reported in scientific literature (PMID: 27180817). |
| Specificity/Sensitivity | NB100-2323 detects IRE-1 alpha when phosphorylated at Ser724 residue. |
| Immunogen | A synthetic peptide surrounding the phosphorylated serine 724 of the human IRE1 alpha protein. [Swiss-Prot #O75460] |
| Notes | Take a look at IRE1 alpha Antibody Sampler Pack [NBP2-50067] if you want to try 25ug aliquots of phospho-IRE1 alpha (Ser724) Antibody [NB100-2323SS] and total IRE1 alpha Antibody [NB100-2324SS] before purchasing 100ug full vials. |
| Product Application Details | |
| Applications | Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation |
| Recommended Dilutions | Western Blot 1:1000, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen 1:10 - 1:500 |
| Application Notes | This IRE1 pS724 antibody is useful for Western blot, ELISA, and Immunohistochemistry paraffin embedded sections (PMID: 19264902). Use in IHC-Frozen reported in scientific literature (PMID 24823368). Use in ICC reported in scientific literature (PMID 26762342). |

Images

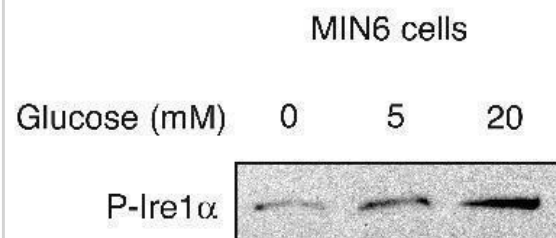
Western Blot: IRE1 alpha [p Ser724] Antibody [NB100-2323] - Western blot of anti-IRE1 alpha (pSer724) using Lot AN and AO of NB100-2323. HeLa cells were treated (+) or untreated (-) with 10 mM DTT for 60 min to activate the UPR. Total protein was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% BSA in TBST. The membrane was probed with 2.0 ug/ml antibody in 5% BSA, and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



Western Blot: IRE1 alpha [p Ser724] Antibody [NB100-2323] - Analysis using HRP conjugate of NB100-2323. Detection of phosphorylated IRE-1 alpha using NB100-2323. Lane 1: COS-7 untransfected Lane 2: COS-7 expressing wild-type IRE1 alpha Lane 3: COS-7 expressing kinase-dead IRE1 alpha.



Western Blot: IRE1 alpha [p Ser724] Antibody [NB100-2323] - Detection in Min6 cells which were treated with different concentrations of glucose for 3 hours prior to lysates preparation.



Publications

Takatori O, Usui S, Okajima M et al. Sodium 4-Phenylbutyrate Attenuates Myocardial Reperfusion Injury by Reducing the Unfolded Protein Response. *J. Cardiovasc. Pharmacol. Ther.* Dec 1 2016 12:00AM [PMID: 27909014] (WB, Mouse)

Liu X, Zhao J, Liu Q et al. MicroRNA-124 promotes hepatic triglyceride accumulation through targeting tribbles homolog 3. *Sci Rep.* Nov 15 2016 12:00AM [PMID: 27845424] (WB, Human)

Wiersma VI, van Hecke W, Scheper W et al. Activation of the unfolded protein response and granulovacuolar degeneration are not common features of human prion pathology. *Acta Neuropathol Commun* Oct 28 2016 12:00AM [PMID: 27793194]

Bastola P, Neums L, Schoenen FJ, Chien J VCP inhibitors induce endoplasmic reticulum stress, cause cell cycle arrest, trigger caspase-mediated cell death and synergistically kill ovarian cancer cells in combination with Salubrinal. *Mol Oncol* Sep 28 2016 12:00AM [PMID: 27729194] (WB)

Aumailley L, Warren A, Garand C et al. Vitamin C modulates the metabolic and cytokine profiles, alleviates hepatic endoplasmic reticulum stress, and increases the life span of Gulo^{-/-} mice. *Aging (Albany NY)* 2016 Mar [PMID: 26922388] (WB)

Hong K, Xu G, Grayson TB, Shalev A Cytokines Regulate beta-Cell Thioredoxin-interacting Protein (TXNIP) via Distinct Mechanisms and Pathways. *J Biol Chem* 2016 Apr 15 [PMID: 26858253]

Stijnen P, Brouwers B, Dirx E et al. Endoplasmic reticulum-associated degradation of the mouse PC1/3-N222D hypomorph and human PCSK1 mutations contributes to obesity. *Int J Obes (Lond)* 2016 Jun [PMID: 26786350]

Oka T, Kurozumi K, Shimazu Y et al. A super gene expression system enhances the anti-glioma effects of adenovirus-mediated REIC/Dkk-3 gene therapy *Sci Rep* Sep 14 2016 12:00AM [PMID: 27625116] (WB, Mouse)

Zanotto-Filho A, Masamsetti VP, Loranc E et al. Alkylating agent induced NRF2 blocks endoplasmic reticulum stress-mediated apoptosis via control of glutathione pools and protein thiol homeostasis *Mol. Cancer Ther.* Sep 16 2016 12:00AM [PMID: 27638861] (WB, Human)

Xiao Y, Xia T, Yu J et al. Knockout of inositol-requiring enzyme 1alpha in pro-opiomelanocortin neurons decreases fat mass via increasing energy expenditure. *Open Biol.* Aug 1 2016 12:00AM [PMID: 27558934] (ICC/IF, WB, Mouse)

Kishi H, Sato M, Shibata Y et al. Role of chemokine C-C motif ligand-1 in acute and chronic pulmonary inflammations. *Springerplus.* Aug 18 2016 12:00AM [PMID: 27536524] (IHC, Mouse)

Takatani T, Shirakawa J, Roe MW et al. IRS1 deficiency protects Beta -cells against ER stress-induced apoptosis by modulating sXBP-1 stability and protein translation *Sci Rep* 2016 Jul 05 [PMID: 27378176] (WB)

More publications at <http://www.novusbio.com/NB100-2323>



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Products Related to NB100-2323

| | |
|---------------|--|
| NB100-2324 | IRE1 alpha Antibody |
| NB100-2323PEP | IRE1 alpha [p Ser724] Peptide |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| NBP1-75297 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |

Limitations

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