

Product Datasheet

IRE1 alpha Antibody Pack NBP2-50067

Unit Size: 3 Vials

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

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Updated 10/23/2024 v.20.1

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NBP2-50067

IRE1 alpha Antibody Pack

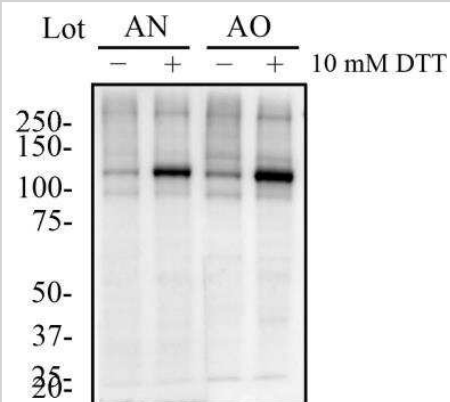
Product Information	
Unit Size	3 Vials
Concentration	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	110 kDa

Product Description	
Description	IRE1 alpha Antibody Sampler Pack [NBP2-50067] is composed of one unit of NB100-2323SS (IRE1 alpha pS724), 0.025 mg, and one unit of NB100-2324SS (IRE1 alpha), 0.025 mg. This pack contains 1 vial each of: NB100-2323SS (0.025 mg), NB100-2324SS (0.025 mg).
Gene ID	2081
Gene Symbol	ERN1
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	See individual datasheets of components for their validated species
Specificity/Sensitivity	NB100-2323 detects IRE-1 alpha when Phosphorylated at Ser724 residue. NB100-2324 detects the Total IRE-1 alpha.
Immunogen	See individual datasheets.
Kit Components	NB100-2324SS, NB100-2323SS, HAF008: Goat anti-Rabbit IgG Secondary Antibody [HRP]

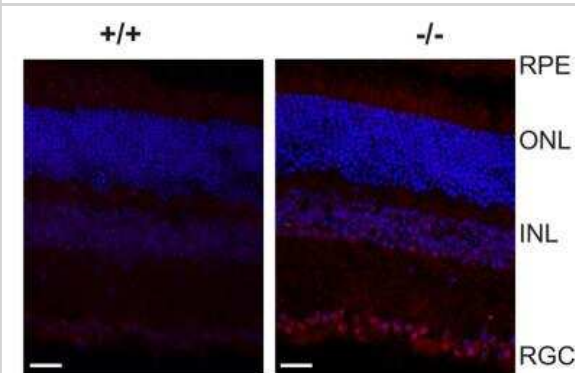
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Knockdown Validated
Application Notes	See individual datasheets of components for their validated applications

Images

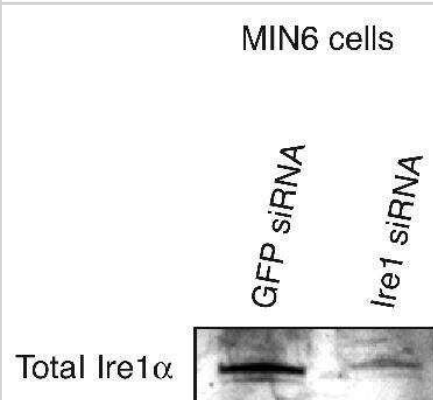
Western Blot: IRE1 alpha Antibody Pack [NBP2-50067] - Western Blot: IRE1 alpha [p Ser724] Antibody [NB100-2323] - Western blot of anti-IRE1 alpha (pSer724) using Lot AN and AO of NB100-2323. HeLa cells were treated (+) or untreated (-) with 10 mM DTT for 60 min to activate the UPR. Total protein was 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. Theoretical molecular weight: 110 kDa.



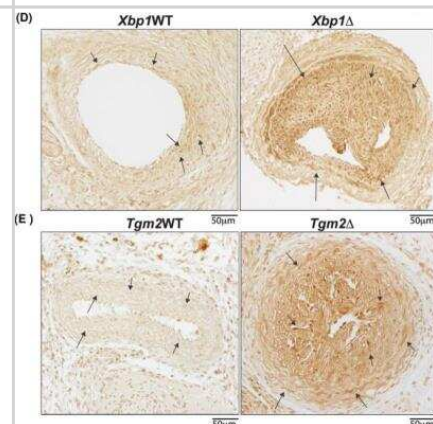
Immunohistochemistry: IRE1 alpha Antibody Pack [NBP2-50067] - P-Ire1a activation correlates with WFS1 cell expression. Cryosections of retina from 12 month old *Wfs1*^{+/+} and *Wfs1*^{-/-} mouse were immunostained with anti-P-Ire1a antibody (red). DAPI was used for staining of cell nuclei (blue). RPE, retinal pigment epithelium; ONL, outer nuclear layer; INL, inner nuclear layer, RGC, retinal ganglion cells. Scale bars=50 um. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0097222](https://doi.org/10.1371/journal.pone.0097222)) licensed under a CC-BY license. IRE1 alpha [p Ser724] Antibody [NB100-2323]



Knockdown Validated: IRE1 alpha Antibody Pack [NBP2-50067] - Western Blot detection of Total IRE1 Alpha in transfected Min6 cells using IRE1 alpha Antibody [NB100-2324]



Immunohistochemistry: IRE1 alpha Antibody Pack [NBP2-50067] - XBP1 and TG2 deficiency promote increased IRE1a protein levels in cultured VSMCs and in neointima in situ. (D) *Xbp1*^{WT} and *Xbp1*^Δ WT and (E) *Tgm2*^{WT} and *Tgm2*^Δ carotid artery sections were analyzed by IHC for total IRE1a. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0212235](https://doi.org/10.1371/journal.pone.0212235)) licensed under a CC-BY license. IRE1 alpha Antibody [NB100-2324]



Publications

Hengst JA, Nduwumwami AJ, Raup-Konsavage WM Et al. Inhibition of Sphingosine Kinase Activity Enhances Immunogenic Cell Surface Exposure of Calreticulin Induced by the Synthetic Cannabinoid 5-epi-CP-55,940 Cannabis and cannabinoid research 2021-11-26 [PMID: 34846947]

Raimondi L, De Luca A, Fontana S et al. Multiple Myeloma-Derived Extracellular Vesicles Induce Osteoclastogenesis through the Activation of the XBP1/IRE1 alpha Axis Cancers (Basel) 2020-08-04 [PMID: 32759820] (WB, Mouse)

Vo DH, Hartig R, Weinert S et al. G-Protein-Coupled Estrogen Receptor (GPER)-Specific Agonist G1 Induces ER Stress Leading to Cell Death in MCF-7 Cells Biomolecules [PMID: 31540491] (Human)





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Products Related to NBP2-50067

NB100-2324PEP	IRE1 alpha Antibody Blocking Peptide
AF835	Caspase-3 Antibody [Unconjugated] - Active
NB100-2323	IRE1 alpha [p Ser724] Antibody - BSA Free
NBP1-40256-0.1mg	ATF6 Antibody (70B1413.1) - BSA Free

Limitations

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

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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