

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 8/21/2023 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

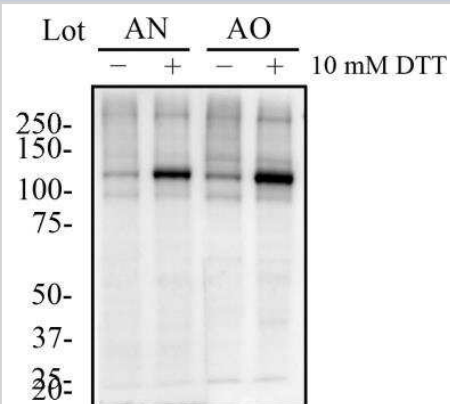
Product Description	
Description	IRE1 alpha Antibody Sampler Pack [NBP2-50067] is composed of one unit of NB100-2323SS (IRE1 alpha pS724), 0.025 mg, and one unit of NB100-2324SS (IRE1 alpha), 0.025 mg. This pack contains 1 vial each of: NB100-2323SS (0.025 mg), NB100-2324SS (0.025 mg).
Gene ID	2081
Gene 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

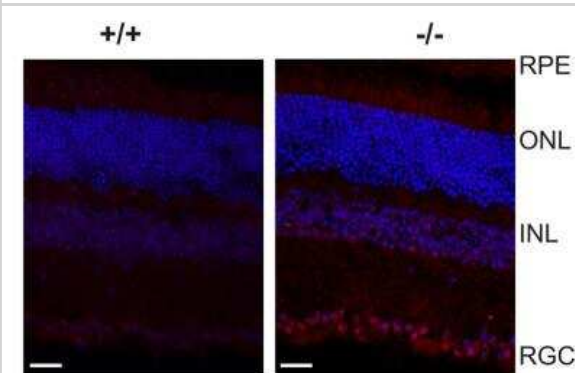


Images

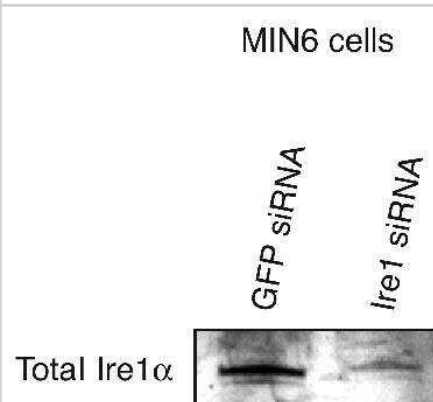
Western Blot: IRE1 alpha Antibody Pack [NBP2-50067] - Western Blot: IRE1 alpha [p Ser724] Antibody [NB100-2323] - Western blot of anti-IRE1 alpha (pSer724) using Lot AN and AO of NB100-2323. HeLa cells were treated (+) or untreated (-) with 10 mM DTT for 60 min to activate the UPR. Total protein was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



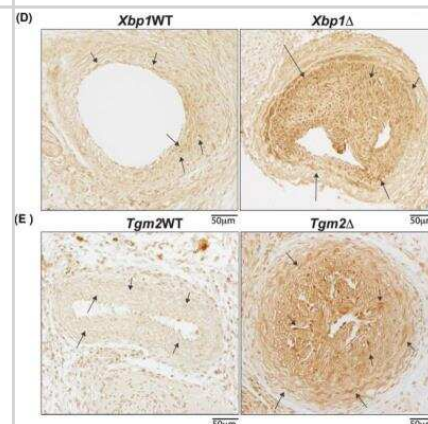
Immunohistochemistry: IRE1 alpha Antibody Pack [NBP2-50067] - P-Ire1a activation correlates with WFS1 cell expression. Cryosections of retina from 12 month old Wfs1+/+ and Wfs1-/- mouse were immunostained with anti-P-Ire1a antibody (red). DAPI was used for staining of cell nuclei (blue). RPE, retinal 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) Xbp1WT and Xbp1 delta WT and (E) Tgm2 WT and Tgm2 delta 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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