

Product Datasheet

GADD153/CHOP Antibody NB600-1335SS

Unit Size: 0.025 ml

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

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NB600-1335SS

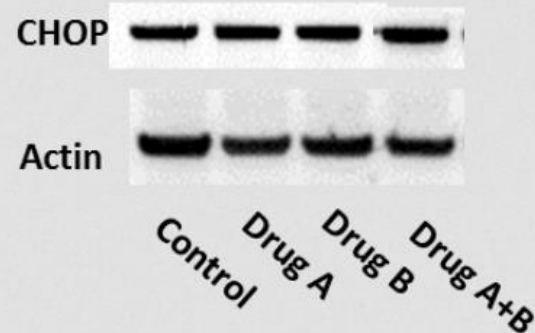
GADD153/CHOP Antibody (9C8)

Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	9C8
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein A purified
Buffer	Tris-glycine, 150 mM NaCl
Target Molecular Weight	29 kDa
Product Description	
Host	Mouse
Gene ID	1649
Gene Symbol	DDIT3
Species	Human, Mouse, Rat, Primate
Species Reactivity	Human, mouse, rat and primate.
Marker	ER Stress Marker
Immunogen	Full length mouse CHOP/GADD153 [Swiss-Prot# P35639]
Product Application Details	
Applications	Western Blot, Simple Western, Gel Super Shift Assays, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:100, Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100, Immunoprecipitation 1:10-1:500, Western Blot 1:500-1:1000, Gel Super Shift Assays, Simple Western 1:250
Application Notes	This CHOP/GADD153 Antibody (9C8) is useful for Immunoprecipitation, Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded sections and Western blot, where a band can be seen at ~29 kDa. Use in Rat reported in customer review. Gel Super Shift Assays was reported in scientific literature. In Simple Western only 10-15 uL of the recommended dilution is used per data point.

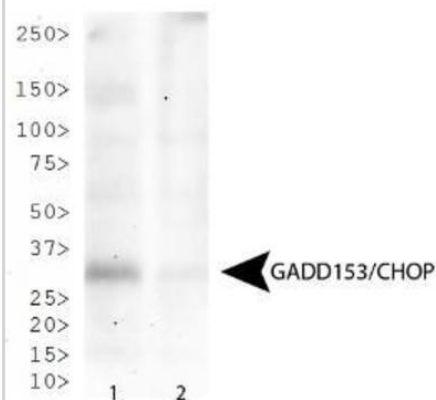


Images

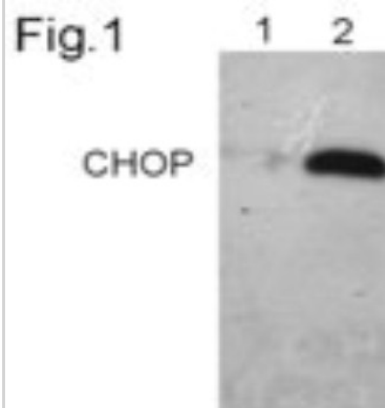
Western Blot: CHOP/GADD153 Antibody (9C8) [NB600-1335] - CHOP Levels following Treatment in Neuroblastoma. Image from verified customer review.



Western Blot: CHOP/GADD153 Antibody (9C8) [NB600-1335] - Western blot analysis of GADD153/CHOP expression in HeLa cells treated with 2.5ug/ml tunicamycin for 4 hours (Lane 1) and untreated (Lane 2).



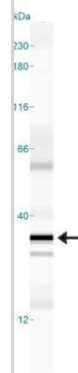
Western Blot: CHOP/GADD153 Antibody (9C8) [NB600-1335] - Figure 1 shows a Western blot of endogenous CHOP/GADD153 from primary human fibroblasts using NB600-1335. Lane 1: Untreated cells, Lane 2: Cells treated with tunicamycin for 10 hours.



Western Blot: CHOP/GADD153 Antibody (9C8) [NB600-1335] - WB analysis of CHOP in rat heart tissue lysate. Image courtesy of product review submitted by Lee Hsiao-Wei.



Simple Western: CHOP/GADD153 Antibody (9C8) [NB600-1335] - Simple Western lane view shows a specific band for CHOP/GADD153 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Lee YJ, Ha YJ, Na Kang Y et al. The Autophagy-Related Marker LC3 Can Predict Prognosis in Human Hepatocellular Carcinoma. PLoS One. 2013 Nov 25 [PMID: 24282606] (IHC-P, Human)

Lin CJ, Lee CC, Shih YL et al. Inhibition of mitochondria- and endoplasmic reticulum stress-mediated autophagy augments temozolomide-induced apoptosis in glioma cells. PLoS One 2012 [PMID: 22745676] (WB, Human)

Hull RL, Zraika S, Udayasankar J, Aston-Mourney K, Subramanian SL, Kahn SE. Amyloid formation in human IAPP transgenic mouse islets and pancreas, and human pancreas, is not associated with endoplasmic reticulum stress. Diabetologia. 2009 Jun. [PMID: 19352619]

Sok J, Wang XZ, Batchvarova N, Kuroda M, Harding H, Ron D. CHOP-Dependent stress-inducible expression of a novel form of carbonic anhydrase VI. Mol Cell Biol;19(1):495-504. 1999 Jan. [PMID: 9858573] (WB)

Zinszner H, Sok J, Immanuel D, Yin Y, Ron D. TLS (FUS) binds RNA in vivo and engages in nucleo-cytoplasmic shuttling. J Cell Sci. 1997 Aug. [PMID: 9264461] (IP, ICC/IF, Human)

Saisanit S, Sun XH. Regulation of the pro-B-cell-specific enhancer of the Id1 gene involves the C/EBP family of proteins. Mol Cell Biol 17(2):844-50. 1997 Feb. [PMID: 9001238] (WB, IP, GS, Mouse)

Wang XZ, Lawson B, Brewer JW, Zinszner H, Sanjay A, Mi LJ, Boorstein R, Kreibich G, Hendershot LM, Ron D. Signals from the stressed endoplasmic reticulum induce C/EBP-homologous protein (CHOP/GADD153). Mol Cell Biol 16(8):4273-80. 1996 Aug. [PMID: 8754828] (WB, Human, Mouse)

Wang XZ, Harding HP, Zhang Y, Jolicoeur EM, Kuroda M, Ron D. Cloning of mammalian Ire1 reveals diversity in the ER stress responses. EMBO J;17(19):5708-17. 1998 Oct 1. [PMID: 9755171] (ICC/IF, Human, Primate)

Wang XZ, Kuroda M, Sok J, Batchvarova N, Kimmel R, Chung P, Zinszner H, Ron D. Identification of novel stress-induced genes downstream of chop. EMBO J;17(13):3619-30. 1998 Jul 1. [PMID: 9649432] (WB, IP, Mouse)

Batchvarova N, Wang XZ, Ron D. Inhibition of adipogenesis by the stress-induced protein CHOP (Gadd153). EMBO J 14(19):4654-61. 1995 Oct 2. [PMID: 7588595] (WB, Mouse)

Kuroda M, Wang X, Sok J et al. Induction of a secreted protein by the myxoid liposarcoma oncogene. Proc Natl Acad Sci U S A. 1999 Apr 27. [PMID: 10220412]

Wang XZ, Ron D. Stress-induced phosphorylation and activation of the transcription factor CHOP (GADD153) by p38 MAP Kinase. Science 1;272(5266):1347-9. 1996 May 31. [PMID: 8650547] (WB, IP, GS, Mouse)

Procedures

Western Blot Protocol for NB600-1335

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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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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