

# Product Datasheet

## **GADD153/CHOP Antibody (9C8) - BSA Free 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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Updated 4/13/2025 v.20.1

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**NB600-1335SS**

GADD153/CHOP Antibody (9C8) - BSA Free

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	PBS
Target Molecular Weight	19 kDa
Product Description	
Host	Mouse
Gene ID	1649
Gene Symbol	DDIT3
Species	Human, Mouse, Rat, Primate
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID:32828953). 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, ELISA, Flow Cytometry, Gel Super Shift Assays, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot, Simple Western 1:250, Flow Cytometry, ELISA, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, Gel Super Shift Assays, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Application Notes	<p>Use in Knockdown Validated reported in scientific literature (PMID:32828953)In Western blot a band can be seen at approx. 29 Knockdown Validateda. Gel Super Shift Assays was reported in scientific literature.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:250, apparent MW was 34 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. Use in chromatin immunoprecipitation reported in scientific literature (PMID: 30962207). Use in ELISA reported in scientific literature (PMID: 29915575). Use in FLOW reported in scientific literature (PMID: 8650547).</p>

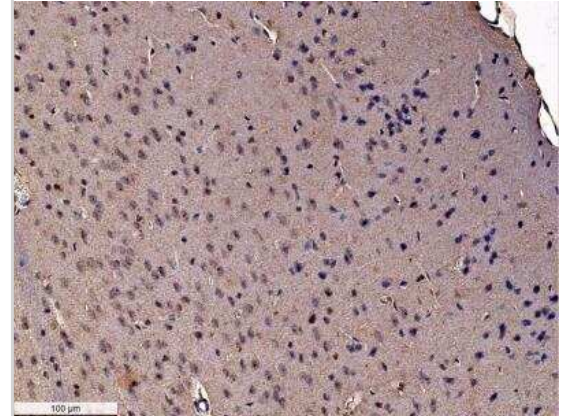


## Images

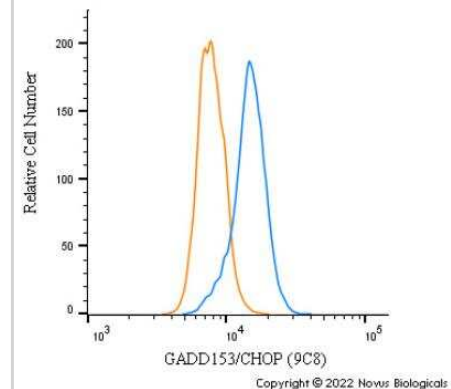
Western Blot: GADD153/CHOP Antibody (9C8) [NB600-1335] - Ethanol feeding increases CHOP expression. Image from verified customer review.



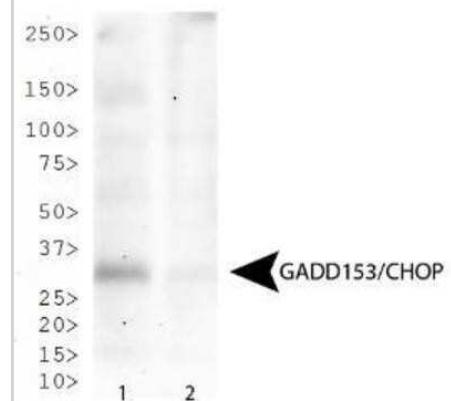
Immunohistochemistry-Paraffin: GADD153/CHOP Antibody (9C8) [NB600-1335] - FFPE tissue section of mouse brain using 1:100 dilution of GADD153/CHOP antibody. The signal was developed using HRP-DAB based detection method which followed counterstaining of the nuclei with hematoxylin. The antibody generated a cytoplasmic and nuclear staining of CHOP in various cell types in the tested section.



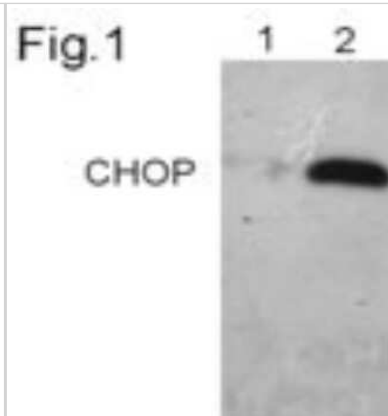
Flow Cytometry: GADD153/CHOP Antibody (9C8) [NB600-1335] - An intracellular stain was performed on SK-MEL-28 cells with GADD153/CHOP Antibody (9C8) NB600-1335 (blue) and a matched isotype control MAB004 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (84540, Thermo Fisher).



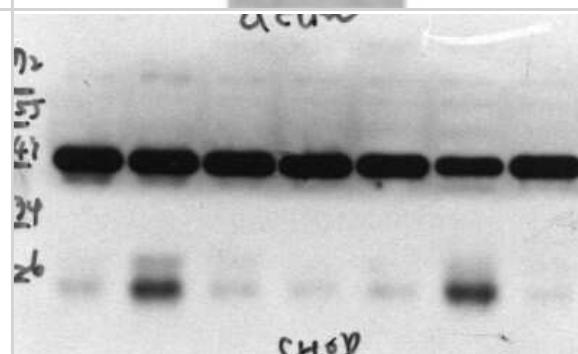
Western Blot: GADD153/CHOP Antibody (9C8) [NB600-1335] - GADD153/CHOP expression in HeLa cells treated with 2.5 ug/mL tunicamycin for 4 hours (Lane 1) and untreated (Lane 2).



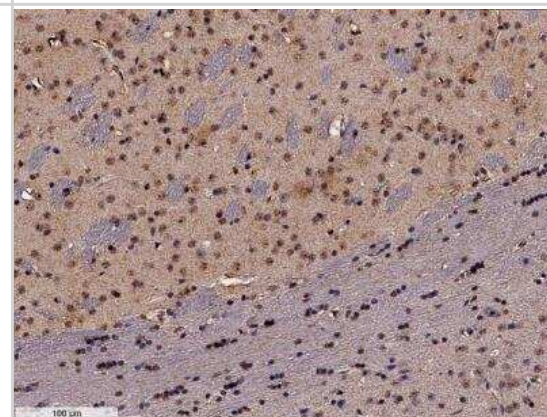
Western Blot: GADD153/CHOP Antibody (9C8) [NB600-1335] - Analysis of endogenous CHOP/GADD153 from primary human fibroblasts using NB600-1335. Lane 1: Untreated cells, Lane 2: Cells treated with tunicamycin for 10 hours.



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



Immunohistochemistry-Paraffin: GADD153/CHOP Antibody (9C8) [NB600-1335] - FFPE tissue section of mouse brain using 1:100 dilution of GADD153/CHOP antibody. The signal was developed using HRP-DAB based detection method which followed counterstaining of the nuclei with hematoxylin. The antibody generated a cytoplasmic and nuclear staining of CHOP in various cell types in the tested section.



Simple Western: GADD153/CHOP Antibody (9C8) [NB600-1335] - Image 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

Chueh, KS;Juan, TJ;Lu, JH;Wu, BN;Lin, RJ;Mao, JW;Lin, HY;Chuang, SM;Chang, CY;Shen, MC;Sun, TW;Juan, YS; Low-Intensity Extracorporeal Shock Wave Therapy Ameliorates Detrusor Hyperactivity with Impaired Contractility via Transient Potential Vanilloid Channels: A Rat Model for Ovarian Hormone Deficiency International journal of molecular sciences 2024-04-30 [PMID: 38732143]

Lind M, Vannas C, Osterlund T et al. FET fusion oncoproteins interact with BRD4 and SWI/SNF chromatin remodelling complex subtypes in sarcoma Molecular Oncology 2022-07-01 [PMID: 35182012] (Western Blot)

Michael Keese, Jiaying Zheng, Kaixuan Yan, Karen Bieback, Benito A Yard, Prama Pallavi, Christoph Reissfelder, Mark Andreas Kluth, Martin Sigl, Vugar Yugublu Adipose-Derived Mesenchymal Stem Cells Protect Endothelial Cells from Hypoxic Injury by Suppressing Terminal UPR In Vivo and In Vitro. International journal of molecular sciences 2023-12-25 [PMID: 38139026]

M Navas-Madr, E Castelblan, M Camacho, M Consegal, A Ramirez-Mo, MR Sarrias, P Perez, N Alonso, M Galán, D Mauricio Role of the Scavenger Receptor CD36 in Accelerated Diabetic Atherosclerosis Int J Mol Sci, 2020-10-05;21 (19):. 2020-10-05 [PMID: 33028031]

VJT Lin, J Hu, A Zolekar, MR Salick, P Mittal, JT Bird, P Hoffmann, A Kaykas, SD Byrum, YC Wang Deficiency of N-glycanase 1 perturbs neurogenesis and cerebral development modeled by human organoids Cell Death & Disease, 2022-03-24;13(3):262. 2022-03-24 [PMID: 35322011]

Gatz C, Hathazi D, Münchberg U et al. Identification of Cellular Pathogenicity Markers for SIL1 Mutations Linked to Marinesco-Sjögren Syndrome Frontiers in Neurology 2019-06-14 [PMID: 31258504] (Western Blot)

Mekhael O, Revill SD, Hayat AI et al. Myeloid-specific deletion of activating transcription factor 6 alpha increases CD11b+ macrophage subpopulations and aggravates lung fibrosis Immunology and cell biology 2023-03-02 [PMID: 36862017] (ICC/IF, Mouse)

Chandrasekaran R, Bruno SR, Mark ZF et al. Mitoquinone mesylate attenuates pathologic features of lean and obese allergic asthma in mice American journal of physiology. Lung cellular and molecular physiology 2022-12-13 [PMID: 36511516] (WB, Mouse)

Details:  
Dilutions: 1:500

Preston AJ The Cancer Protective Properties of an Elephant TP53 Retrogene Thesis 2022-01-01

Dolatabadi S, Jonasson E, Andersson L Et al. FUS-DDIT3 Fusion Oncoprotein Expression Affects JAK-STAT Signaling in Myxoid Liposarcoma Front Oncol 2022-02-21 [PMID: 35186752] (IP, Human)

Details:  
Citation using the Biotin version of this antibody.

Wu L, He S, Ye W Et al. Surf4 facilitates reprogramming by activating the cellular response to endoplasmic reticulum stress Cell proliferation 2021-11-01 [PMID: 34585448] (WB, Mouse)

Zhao S, Chen W, Li W et al. LncRNA TUG1 attenuates ischaemia-reperfusion-induced apoptosis of renal tubular epithelial cells by sponging miR-144-3p via targeting Nrf2 Journal of cellular and molecular medicine 2021-09-21 [PMID: 34547172] (WB, Mouse)

More publications at <http://www.novusbio.com/NB600-1335>





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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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