

# Product Datasheet

## Calnexin Antibody (AF18) - BSA Free NB300-518

Unit Size: 100 uL

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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**Publications: 14**

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Updated 10/23/2024 v.20.1

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**NB300-518**

Calnexin Antibody (AF18) - BSA Free

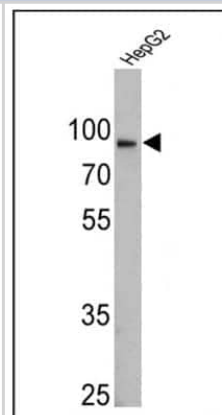
Product Information	
Unit Size	100 uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	AF18
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	821
Gene Symbol	CANX
Species	Human, Mouse, Rat, Monkey
Marker	Endoplasmic Reticulum Membrane Marker
Specificity/Sensitivity	Calnexin (AF18)
Immunogen	Focus human hepatoma cell lysate.

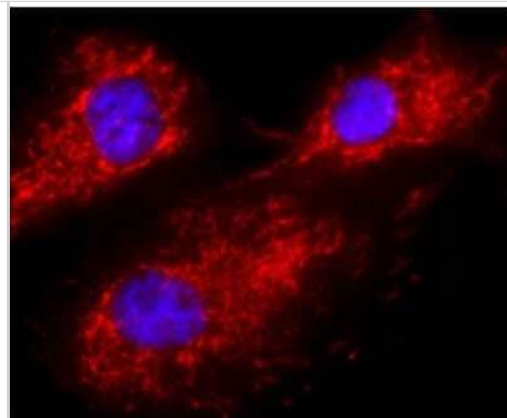
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:1000, Immunohistochemistry 1:20, Immunocytochemistry/ Immunofluorescence 1:50 - 1:500, Immunoprecipitation 5 ug, Immunohistochemistry-Paraffin 1:20
Application Notes	Detects an approx. 90 kDa band representing calnexin in human liver, skin, adrenal gland, kidney, heart, colon, testes and ovary extracts. ICC: Staining of calnexin in Huh-7 cells yields a pattern consistent with specific endoplasmic reticulum staining.

**Images**

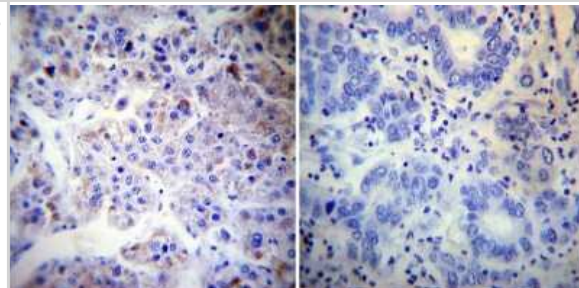
Western Blot: Calnexin Antibody (AF18) [NB300-518] - Analysis of 25 ug of HepG2 lysate.



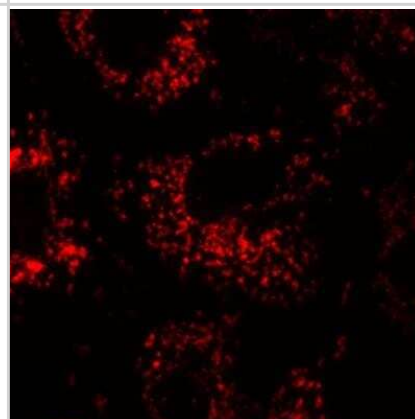
Immunocytochemistry/Immunofluorescence: Calnexin Antibody (AF18) [NB300-518] - Staining of calnexin (red) in U87 cells.



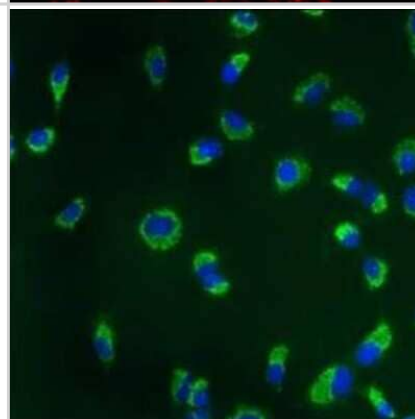
Immunohistochemistry-Paraffin: Calnexin Antibody (AF18) [NB300-518] - Both normal and cancer biopsies of deparaffinized Human hepatocarcinoma tissues.



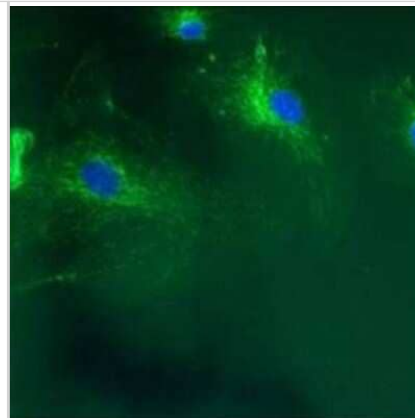
Immunocytochemistry/Immunofluorescence: Calnexin Antibody (AF18) [NB300-518] - Transfected COS7 cells were blocked in 1% BSA, 5% normal goat serum, and 0.1% Triton X-100 in 1X PBS, and then stained (1:500), followed by a fluorophore-conjugated goat anti-mouse IgG secondary antibody (red).



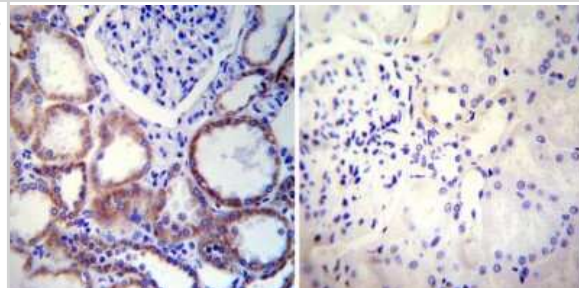
Immunocytochemistry/Immunofluorescence: Calnexin Antibody (AF18) [NB300-518] - Staining of Calnexin in A549 Cells.



Immunocytochemistry/Immunofluorescence: Calnexin Antibody (AF18) [NB300-518] - Staining of HMVEC Cells.



Immunohistochemistry-Paraffin: Calnexin Antibody (AF18) [NB300-518] - Normal deparaffinized Human kidney tissue tissues.



## Publications

Christine Marques, Aaron Held, Katherine Dorfman, Joon Sung, Catherine Song, Amey S. Kavuturu, Corey Aguilar, Tommaso Russo, Derek H. Oakley, Mark W. Albers, Bradley T. Hyman, Leonard Petrucelli, Clotilde Lagier-Tourenne, Brian J. Wainger Neuronal STING activation in amyotrophic lateral sclerosis and frontotemporal dementia *Acta Neuropathologica* 2024-03-13 [PMID: 38478117]

LM Daian, G Tanko, AM Vacaru, L Ghila, S Chera, AM Vacaru Modulation of Unfolded Protein Response Restores Survival and Function of beta-Cells Exposed to the Endocrine Disruptor Bisphenol A *International Journal of Molecular Sciences*, 2023-01-19;24(3):. 2023-01-19 [PMID: 36768343]

Gurri S, Siegenthaler B, Cangkrama M et al. NRF3 suppresses squamous carcinogenesis, involving the unfolded protein response regulator HSPA5 *EMBO molecular medicine* 2023-10-09 [PMID: 37807968]

Schumann T, König J, von Loeffelholz C et al. Deletion of the diabetes candidate gene Slc16a13 in mice attenuates diet-induced ectopic lipid accumulation and insulin resistance *Communications Biology* 2021-07-01 [PMID: 34211098] (Immunocytochemistry/ Immunofluorescence)

Ramadan AA, Mayilsamy K, McGill AR et al. Identification of SARS-CoV-2 Spike Palmitoylation Inhibitors That Results in Release of Attenuated Virus with Reduced Infectivity *Viruses* 2022-03-04 [PMID: 35336938] (Block/Neutralize)

Ma X, Li M, Liu Y et al. ARTC1-mediated VAPB ADP-ribosylation regulates calcium homeostasis *Journal of molecular cell biology* 2023-06-28 [PMID: 37381178] (ICC/IF, Human)

Launay N, Ruiz M, Planas-Serra L et al. RINT1 deficiency disrupts lipid metabolism and underlies a complex hereditary spastic paraplegia *The Journal of clinical investigation* 2023-07-17 [PMID: 37463447] (ICC/IF, Human)

Cangkrama M, Liu H, Whipman J et al. A pro-tumorigenic mDia2-MIRO1 axis controls mitochondrial positioning and function in cancer-associated fibroblasts *Cancer research* 2022-08-23 [PMID: 35997559] (WB)

Details:

WB Dilutions: 1:500

Ullah HMA, Elfadl AK, Park S et al. Nogo-A Is Critical for Pro-Inflammatory Gene Regulation in Myocytes and Macrophages *Cells* 2021-01-31 [PMID: 33572505] (ICC/IF, Mouse)

Heider M, Eichner R, Stroh J et al. The IMiD target CRBN determines HSP90 activity toward transmembrane proteins essential in multiple myeloma *Molecular cell* 2021-02-03 [PMID: 33571422]

Zhang X, Zhang J, Sun H et al. Defective Phosphatidylglycerol Remodeling Causes Hepatopathy, Linking Mitochondrial Dysfunction to Hepatosteatosis *Cell Mol Gastroenterol Hepatol* 2019-03-01 [PMID: 30831319] (WB, Monkey)

Godbole A, Lyga S, Lohse MJ, Calebiro D. Internalized TSH receptors en route to the TGN induce local G s-protein signaling and gene transcription *Nature Communications* 2017-01-01 [PMID: 28874659] (ICC/IF, Mouse)

More publications at <http://www.novusbio.com/NB300-518>



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### **Products Related to NB300-518**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB100-1974PEP	Calnexin Antibody Blocking Peptide

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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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