

Product Datasheet

Calnexin Antibody (1563) - Azide and BSA Free NBP2-43765

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP2-43765

Calnexin Antibody (1563) - Azide and BSA Free

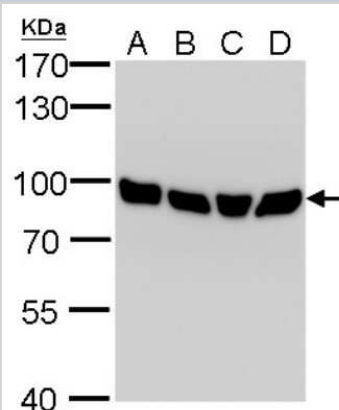
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1563
Preservative	No Preservative
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	68 kDa

Product Description	
Description	Novus Biologicals Mouse Calnexin Antibody (1563) - Azide and BSA Free (NBP2-43765) is a monoclonal antibody validated for use in WB, ICC/IF and IP. Anti-Calnexin Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	821
Gene Symbol	CANX
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Zebrafish (82%), Xenopus laevis (89%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human Calnexin. The exact sequence is proprietary.

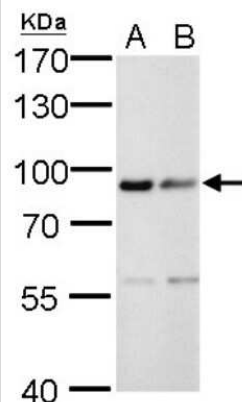
Product Application Details	
Applications	Western Blot, Dot Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:10000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation Assay dependent, Dot Blot Assay dependent

Images

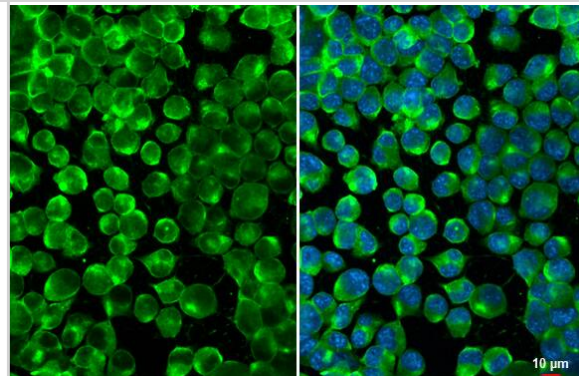
Western Blot: Calnexin Antibody (1563) [NBP2-43765] - Analysis of A. 30 ug 293T whole cell lysate/extract B. 30 ug A431 whole cell lysate/extract C. 30 ug HeLa whole cell lysate/extract D. 30 ug HepG2 whole cell lysate/extract 7.5 % SDS-PAGE Calnexin antibody [1563] dilution: 1:1000.



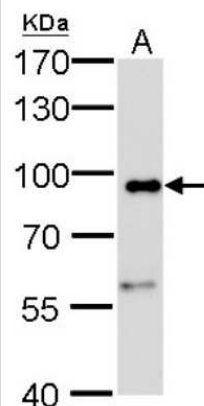
Western Blot: Calnexin Antibody (1563) [NBP2-43765] - Analysis of A. 30 ug PC-12 whole cell lysate/extract B. 30 ug Rat-2 whole cell lysate/extract 7.5 % SDS-PAGE Calnexin antibody [1563] dilution: 1:500



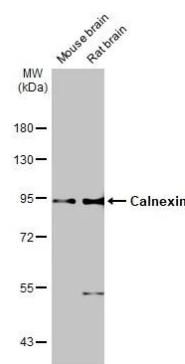
Immunocytochemistry/ Immunofluorescence: Calnexin Antibody (1563) [NBP2-43765] - Calnexin antibody [GT1563] detects Calnexin protein at cytoplasm by immunofluorescent analysis. Sample: Neuro2A cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Calnexin stained by Calnexin antibody [GT1563] (NBP2-43765) diluted at 1:500. Blue: Fluoroshield with DAPI .



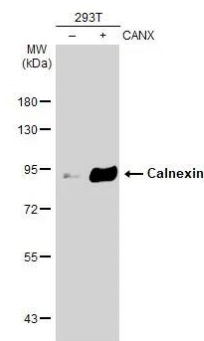
Western Blot: Calnexin Antibody (1563) [NBP2-43765] - Analysis of A. 50 ug mouse liver lysate/extract 7.5 % SDS-PAGE Calnexin antibody [1563] dilution: 1:1000



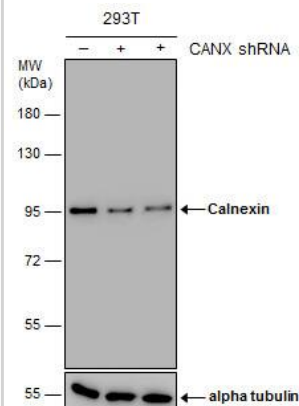
Western Blot: Calnexin Antibody (1563) [NBP2-43765] - Various tissue extracts (50 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Calnexin antibody [GT1563] (NBP2-43765) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



Western Blot: Calnexin Antibody (1563) [NBP2-43765] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Calnexin antibody [GT1563] (NBP2-43765) diluted at 1:5000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



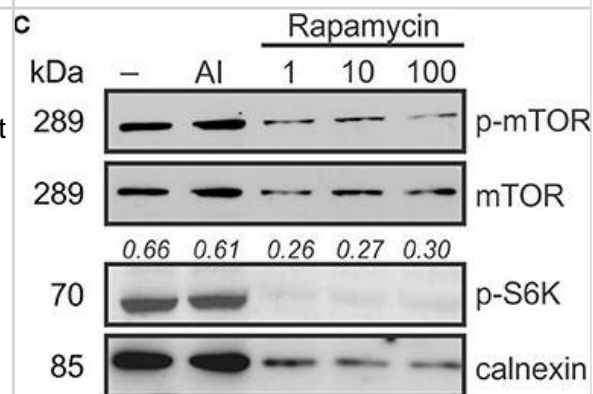
Non-transfected (-) and transfected (+) 293T whole cell extracts (15 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Calnexin antibody [GT1563] (NBP2-43765) diluted at 1:6000.



Calnexin antibody [GT1563] detects Calnexin protein by immunofluorescent analysis. Sample: HeLa cells were fixed in ice-cold MeOH for 5 min. Green: Calnexin stained by Calnexin antibody [GT1563] (NBP2-43765) diluted at 1:500. Red: Calnexin, stained by Calnexin antibody [C3], C-term diluted at 1:500. Blue: Hoechst 33342 staining.



AKT acts down-stream of mTOR signaling. To examine if Akt is upstream or downstream of mTOR signaling (A), osteoclast precursors were treated with RANKL (50 ng/ml) for 2–3 days with and without pyruvate (1 mM). (B) The levels of phosphorylated (Ser473) and total Akt in control and pyruvate-supplemented cultures, α -tubulin was used as a control for protein loading. (C) Cells cultured without pyruvate were exposed to Akt inhibitor (AI, 5 μ M) or rapamycin (1, 10, or 100 nM), and mTOR phosphorylation, total mTOR levels and phosphorylation of p70S6K was assessed, calnexin was used as a protein loading control. The numbers above the blots indicate phospho-S6K levels relative to calnexin. (D) The effect of Akt inhibitor or rapamycin on Akt phosphorylation. The numbers above the blots indicate phospho-Akt levels relative to total Akt. To be noted, all the lanes were parts of the same gel, however, the lane order was changed, resulting in discontinuity. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/28573133>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Müller-Calleja N, Hollerbach A, Canisius A et al. Rapid translocation of intracellular toll-like receptors depends on endosomal NADPH oxidase *European journal of immunology* 2023-06-27 [PMID: 37366283]

Copperi F, Schleis I, Roumain M et al. EBI2 is a negative modulator of brown adipose tissue energy expenditure in mice and human brown adipocytes *Communications biology* 2022-03-29 [PMID: 35351968] (WB, Mouse)

Ruhen O, Qu X, Jamaluddin MFB Et al. Dynamic Landscape of Extracellular Vesicle-Associated Proteins Is Related to Treatment Response of Patients with Metastatic Breast Cancer *Membranes* 2021-11-16 [PMID: 34832109] (WB, Human)

Ruhen O, Mirzai B, Clark ME et al. Comparison of Circulating Tumour DNA and Extracellular Vesicle DNA by Low-Pass Whole-Genome Sequencing Reveals Molecular Drivers of Disease in a Breast Cancer Patient *Biomedicines* 2020-12-25 [PMID: 33375577] (WB, Human)

Tiedemann K, Le Nihouannen D, Fong JE et al. Regulation of Osteoclast Growth and Fusion by mTOR/raptor and mTOR/rictor/Akt *Front Cell Dev Biol.* 2017-05-17 [PMID: 28573133] (WB, Mouse)





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Products Related to NBP2-43765

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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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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