

Catalogue No.AB0041-200
AB0041-500**Qty:**400 µg
1 mg**Anti-CANX****Source:** Goat

General description: Goat polyclonal to CANX (Calnexin) - endoplasmic reticulum (ER) membrane marker. CANX is a member of the calnexin family of molecular chaperones. This protein is a calcium-binding, ER-associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. It may also play a central role in the quality control of protein folding by retaining incorrectly folded protein subunits within the ER for degradation.

Alternative names: Calnexin, CALX, CNX, FLJ26570, histocompatibility complex class I antigen binding protein p88, IP90, major histocompatibility complex class I antigen-binding protein p88, MS952, P90 antibody.

Form: Polyclonal antibody supplied as a 200 or 500 µl (2 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum and it is identical to AB4100-200.

Immunogen: Purified recombinant peptide within residues 550 aa to the C-terminus of human CANX produced in *E. coli*.

Specificity: Detects a band of 90 kDa by Western blot in the following human (293A, primary fibroblasts, HaCat, HeLa, HMEC-1, Jurkat, MNT1, U-118, rat (TR-iBRB), mouse (3T3, AtT-20, Hepa, Raw264.7), monkey (COS-7) and canine (D17) whole cell lysates.

Reactivity: Reacts with Human, Rat, Mouse, Monkey and Canine proteins

Sample	WB	IHC (F)	IHC (P)	IF	ELISA
Human	+++	+++	+++	+++	ND
Rat	+++	+++	+++	+++	ND
Mouse	+++	+++	+++	+++	ND
Canine	+++	+++	+++	+++	ND
Monkey	+++	+++	+++	+++	ND

+++ excellent, ++ good, + poor, ND not determined

Usage:

WB: 1:500-1:5,000

IF: 1:50-1:500

IHC (P): 1:200-1:1,000

IHC (F): 1:200-1:1,000

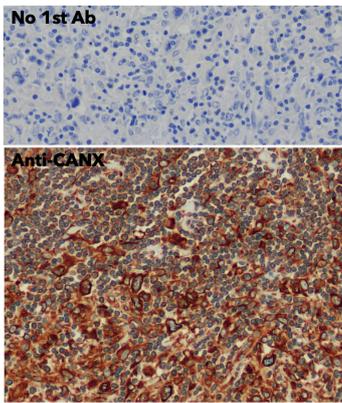
Storage: For continuous use, store at 2-8 C for one-two days. For extended storage, store in -20 C freezer. Working dilution samples should be discarded if not used within 12 hours.

Special instructions: The antibody solution should be gently mixed before use..

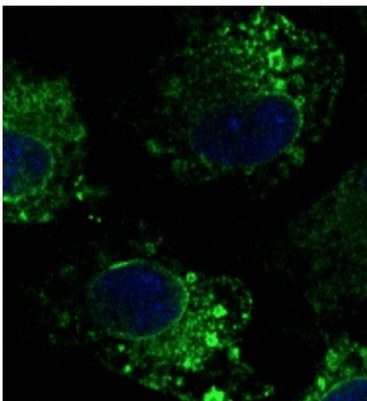
References:

1. Martins-Marques T, Costa MC, Catarino S, et al. EMBO Rep 2022 May PMID: 35593040
2. Ferreira JV, Soares AR, Ramalho J, et al. Sci Adv 2022 Mar PMID: 35333565
3. Moniz I, Ramalho-Santos J, Branco AF. Int J Mol Sci 2022 Mar PMID: 35409106
4. Martins FO, Sacramento JF, Olea E, et al. Antioxidants (Basel) 2021 Aug PMID: 34439481
5. Melo BF, Prieto-Lloret J, Cabral MD, et al. Sci Rep 2021 Mar PMID: 33723367
6. Lissoni A, Hulpiau P, Martins-Marques T, et al. Cardiovasc Res 2021 Jan PMID: 31841141
7. Aires ID, Ribeiro-Rodrigues T, Boia R, et al. Glia 2020 Dec PMID: 32645245
8. Martins-Marques T, Ribeiro-Rodrigues T, de Jager SC, et al. Life Sci Alliance 2020 Oct PMID: 33097557
9. Ferreira-Silva J, Aires ID, Boia R, et al. Int J Mol Sci 2020 Sep PMID: 33007835
10. Sousa FJ, Correia RG, Cruz AF, et al. Brain, Behavior, & Immunity 2020 Apr PMID: 34589855
11. Encarnacao M, Coutinho MF, Cho SM, et al. Mol Genet Genomic Med 2020 Sep PMID: 32931663
12. Catarino S, Ribeiro-Rodrigues TM, Sa Ferreira R, et al. Cells 2020 Apr PMID: 32272685
13. Sacramento JF, Martins FO, Rodrigues T, et al. Front Endocrinol (Lausanne) 2020 Apr. PMID: 32411098
14. Boia R, Dias PAN, Martins JM, et al. J Control Release 2019 Nov PMID: 31715277
15. Ferreira JV, Rosa Soares A, Ramalho JS, et al. PLoS One 2019 Oct. PMID: 31613922
16. Sacramento JF, Olea E, Ribeiro MJ, et al. J Physiol 2019 Aug. PMID: 31426127
17. Melo BF, Sacramento JF, Ribeiro MJ, et al. Nutrients 2019 May. PMID: 31141900
18. Sanzà P, Evans RD, Briggs DA, et al. J Cell Sci 2019 Apr. PMID: 30898842
19. Barbeitos JP, MSc Thesis, University of Coimbra, Portugal 2018
20. Cardoso MHS, PhD Thesis, NOVA University of Lisbon, Portugal 2018
21. Ribeiro ST, Tesio M, Ribot JC, et al. Leukemia 2017 Jul. PMID: 27899804

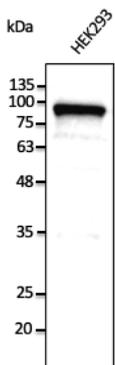
22. Pelkonen L, Sato K, Reinisalo M, et al. *Mol Pharm* 2017 Mar 6. PMID: 28112518
23. Martins-Marques T, Pinho MJ, Zuzarte M. et al. *J Extracell Vesicles* 2016 Sep. PMID: 27702427
24. Neves MMM, MSc Thesis, University of Coimbra, Portugal 2015
25. Ferreira RRS, MSc Thesis, Coimbra University 2015
26. Paiva RA, MSc Thesis, Coimbra University 2015
27. Samtleben S, PhD Thesis, Universität Würzburg 2014
28. Ribot JC, Ribeiro ST, Correia DV, Sousa AE, Silva-Santos B. *J Immuno* 2014 Mar, PMID: 24489097
29. Marques, CIR, MSc Thesis, Coimbra University 2013
30. Fernandes J, Martins F, Olea E, et al. *bioRxiv* 2023
31. Melo B, Sacramento J, Lavergne J, et al. *bioRxiv* 2023
32. Correia B, Sousa M, Ramalho-Santos J. *BioChem* 2023
33. Amaro A, Sousa D, Sá-Rocha M, et al. *Nutrients* 2023 Aug PMID: 37630771
34. Realinho AM, Boia R, Paiva B, et al. *Life Sci* 2023 Aug PMID: 37321535
35. Cremer T, Voortman LM, Bos E, et al. *EMBO J* 2023 Sep PMID: 37519262
36. Fernandes J, MSc Thesis, NOVA University of Lisbon, Portugal 2023
37. Lüningschrör P, Andreska T, Veh A. et al. *Dev Cell* 2023 Sep PMID: 37506696
38. Almeida-Reis S, Carvalho A, Dias C, et al. *Biomolecules* 2024 Feb PMID: 38540702



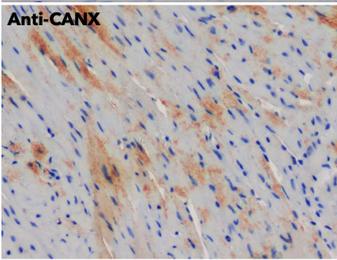
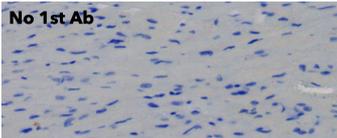
IHC of human lymph node using anti-CANX antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CANX Ab at 1:750/DAB detection;



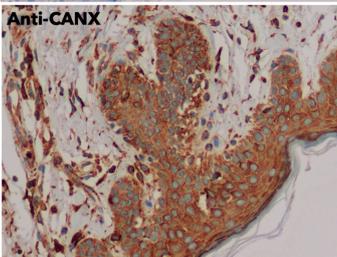
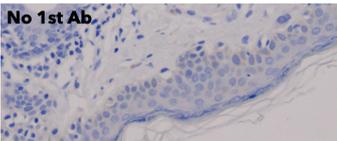
Immunofluorescence – anti-CANX Ab in Hepa1-6 cells at 1/100 dilution; cells were fixed with 4% of PFA;



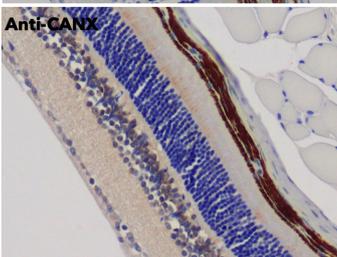
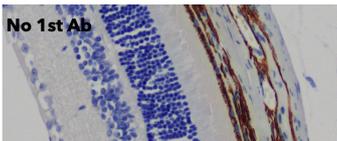
Anti-CANX Ab at 1/2,500 dilution; lysates at 50 µg per lane; rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



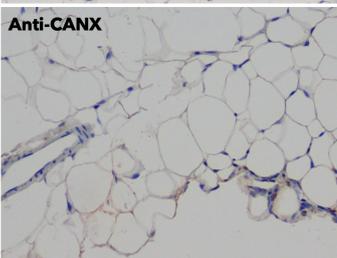
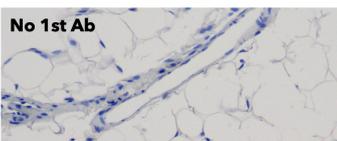
IHC of human heart using anti-CANX antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CANX Ab at 1:750/DAB detection;



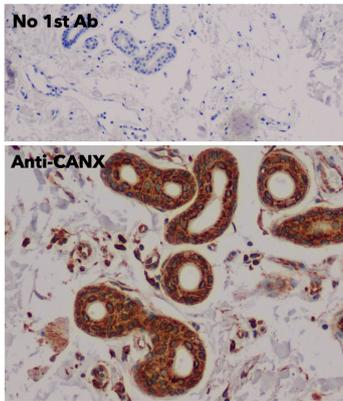
IHC of human skin using anti-CANX antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CANX Ab at 1:750/DAB detection;



IHC of mouse retina using anti-CANX antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CANX Ab at 1:750/DAB detection;



IHC of human adipose tissue anti-CANX antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CANX Ab at 1:750/DAB detection;



IHC of human adipose tissue anti-CANX antibody and FFPE tissue after heat-induced antigenretrieval. Anti-CANX Ab at 1:750/DAB detection;

For research use only, not for diagnostic use

SICGEN's Proprietary Immunogen Policy

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.