

Anti-Calnexin CANX Antibody

Catalog Number: A03372

About CANX

Anti-Glycogen Synthase 1 pS641 antibody is validated by IHC, Western Blot and ELISA. Human muscle glycogen synthase (GS) is responsible for the biosynthesis of glycogen from phosphorylated glucose units. Mammalian liver and muscle contain GS consisting of four subunits with a total molecular weight of 360,000. GS is subject to regulation through both allosteric and covalent modification and occurs in two forms: the phosphorylated inactive form, and the dephosphorylated active form. GS is inactivated by the serine/threonine kinase called glycogen synthase kinase-3 β that mainly functions to phosphorylate muscle glycogen synthase. This antibody is specific for the phosphorylated form of GS at S641. Phosphorylation of GS at S641 has been associated with Antiphospholipid Antibody Syndrome.

Overview

Product Name	Anti-Calnexin CANX Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Calnexin CANX Antibody catalog # A03372. Tested in IP, IF, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IF, IHC, WB
Clonality	Polyclonal
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P24643

Technical Details

Immunogen	Synthetic peptide corresponding to the sequence near the C-terminus of dog calnexin. The sequence is completely conserved in human, mouse and rat.
Predicted Reactive Species	Bovine, Chicken
Isotype	IgG
Form	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein A affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western Blot (1:1,000, colorimetric)

Suggested dilutions/conditions may not be available for all applications.

Optimal conditions must be determined individually for each application.

Anti-Calnexin CANX Antibody (A03372) Images

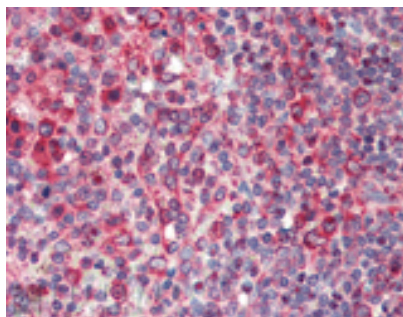


Figure 1. IHC analysis of CANX using anti-CANX antibody (A03372). CANX was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CANX Antibody (A03372) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

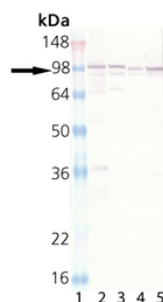


Figure 2. Western blot analysis of CANX using anti-CANX antibody (A03372). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CANX antigen affinity purified polyclonal antibody (Catalog # A03372) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for CANX.

2 Publications Citing This Product

1. PubMed ID: 10.3892/ijmm.2019.4255, CaSR activates PKCdelta to induce cardiomyocyte apoptosis via ER stress-associated apoptotic pathways during ischemia/reperfusion
2. PubMed ID: 34074322, Yu F,Liang M,Huang Y,Wu W,Zheng B,Chen C.Hypoxic tumor-derived exosomal miR-31-5p promotes lung adenocarcinoma metastasis by negatively regulating SATB2-reversed EMT and activating MEK/ERK signaling.J Exp Clin Cancer Res.2021 Jun 1;40(1):179.doi:10.1186/s13046-021-01979-7.PMID:34074322.

Visit bosterbio.com/anti-calnexin-antibody-a03372-boster.html to see all 2 publications.

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