

Anti-Calnexin antibody [EPR3632] ab92573

敲除验证
重组
RabMAb

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概述

产品名称	Anti-Calnexin抗体[EPR3632]
描述	兔单克隆抗体[EPR3632] to Calnexin
宿主	Rabbit
特异性	Recognizes ER membrane, mitochondria and cis-Golgi
经测试应用	适用于: ICC/IF, WB, IP, IHC-P 不适用于: Flow Cyt
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human Calnexin aa 1-100. The exact sequence is proprietary. Database link: P27824
阳性对照	WB: HeLa, A431, SH-SY5Y, HEK-293T, MCF7, U-2 OS and HepG2 whole cell lysate (ab7900). IHC-P: Human tonsil tissue. ICC/IF: Wild-type HAP1 cells. IP: HeLa lysate.
常规说明	<p>References regarding specificity:</p> <p>Horner SM <i>et al.</i> Mitochondrial-associated endoplasmic reticulum membranes (MAM) form innate immune synapses and are targeted by hepatitis C virus. <i>Proc Natl Acad Sci U S A</i> 108:14590-5 (2011). PubMed: 21844353</p> <p>Myhill N <i>et al.</i> The subcellular distribution of calnexin is mediated by PACS-2. <i>Mol Biol Cell</i> 19:2777-88 (2008). PubMed: 18417615</p> <p>Yoshimura SI <i>et al.</i> Direct targeting of cis-Golgi matrix proteins to the Golgi apparatus. <i>J Cell Sci</i> 114:4105-15 (2001). PubMed: 11739642</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3632
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab92573 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

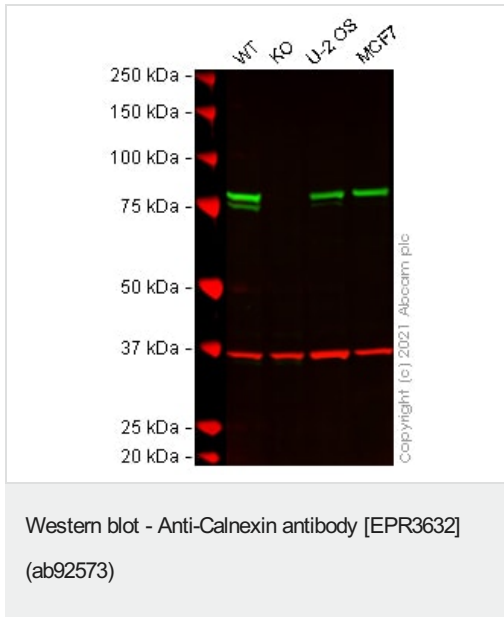
应用	Ab评论	说明
ICC/IF		1/1000.
WB		1/20000 - 1/100000. Predicted molecular weight: 90 kDa.
IP		1/50.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用说明 Is unsuitable for Flow Cyt.

靶标

功能	Calcium-binding protein that interacts with newly synthesized glycoproteins in the endoplasmic reticulum. It may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. It seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins.
序列相似性	Belongs to the calreticulin family.
细胞定位	Endoplasmic reticulum membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

图片



All lanes : Anti-Calnexin antibody [EPR3632] (ab92573) at 1/20000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : CANX knockout HEK-293T cell lysate

Lane 3 : U-2 OS cell lysate

Lane 4 : MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

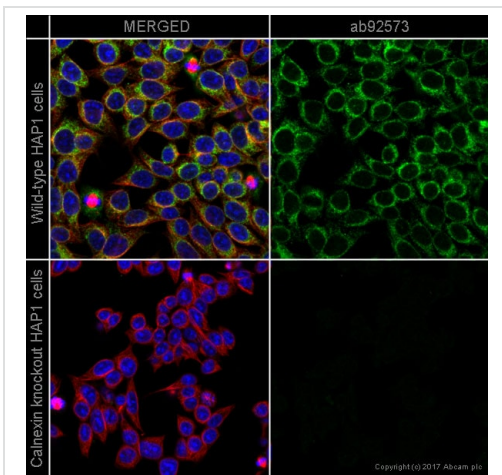
Performed under reducing conditions.

Predicted band size: 90 kDa

Observed band size: 80 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab92573 observed at 80 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

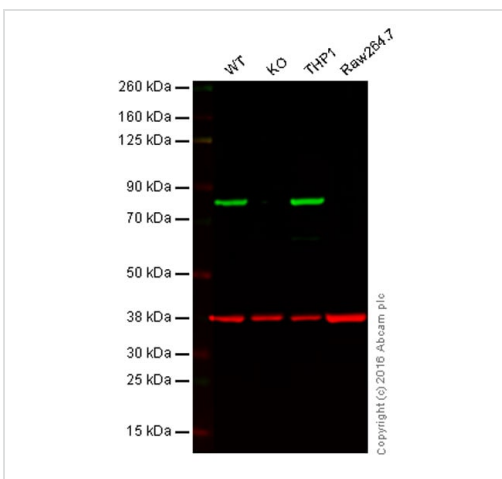
ab92573 was shown to react with Calnexin in wild-type HEK-293T cells in Western blot with loss of signal observed in CANX knockout cell line **ab255368** (CANX knockout cell lysate **ab263805**). Wild-type HEK-293T and CANX knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween[®]) before incubation with ab92573 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 20000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Calnexin antibody [EPR3632] (ab92573)

ab92573 staining Calnexin in wild-type HAP1 cells (top panel) and CANX knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab92573 at 1/1000 dilution and **ab195889** at 1/250 dilution (shown in pseudocolour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Western blot - Anti-Calnexin antibody [EPR3632] (ab92573)

All lanes : Anti-Calnexin antibody [EPR3632] (ab92573) at 1/20000 dilution

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : Calnexin knockout HAP1 cell lysate

Lane 3 : THP-1 cell lysate

Lane 4 : RAW 264.7 cell lysate

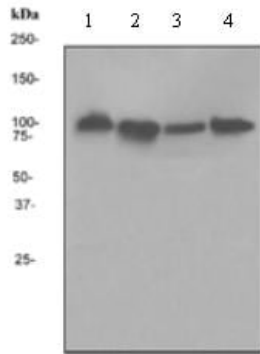
Lysates/proteins at 20 µg per lane.

Predicted band size: 90 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab92573 observed at 80 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab92573 was shown to specifically react with Calnexin when Calnexin knockout samples were used. Wild-type and Calnexin

knockout samples were subjected to SDS-PAGE. ab92573 and **ab8245** (loading control to GAPDH) were diluted at 1/20,000 and 1/10,000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed **ab216776** secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Calnexin antibody [EPR3632] (ab92573)

All lanes : Anti-Calnexin antibody [EPR3632] (ab92573) at 1/20000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : A431 cell lysate

Lane 3 : SH-SY5Y cell lysate

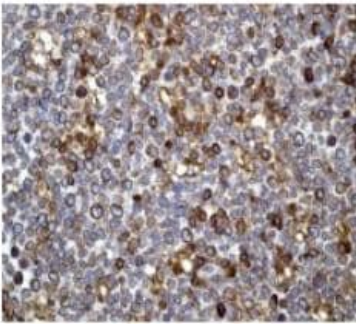
Lane 4 : HepG2 cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : standard HRP labelled goat anti-rabbit at 1/2000 dilution

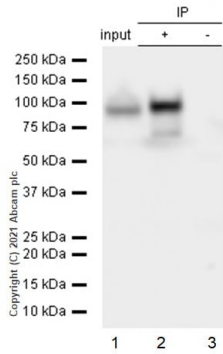
Predicted band size: 90 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calnexin antibody [EPR3632] (ab92573)

Immunohistochemical analysis of paraffin embedded Human tonsil tissue using ab92573 at a 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Calnexin antibody
[EPR3632] (ab92573)

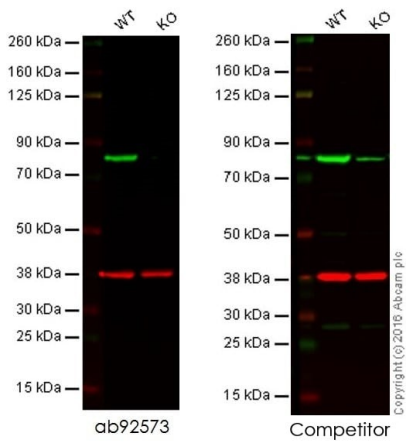
Calnexin was immunoprecipitated from 0.35 mg HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg with 92573 at 1/100 dilution (2µg). VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg

Lane 2: ab92573 IP in HeLa whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab92573 in HeLa whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.



Western blot - Anti-Calnexin antibody [EPR3632]
(ab92573)

All lanes : Anti-Calnexin antibody [EPR3632] (ab92573)

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : Calnexin knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 90 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab92573 observed at 80 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

This western blot image is a comparison between ab92573 and a competitor's rabbit polyclonal antibody.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Calnexin antibody [EPR3632] (ab92573)

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