Calreticulin Rabbit mAb

Catalog No: #48841

Package Size: #48841-1 50ul #48841-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

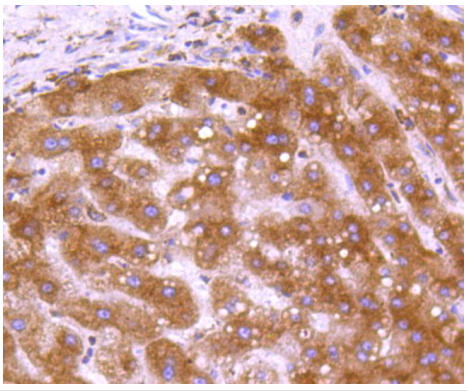
Description

Product Name	Calreticulin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SU37-03
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic peptide within Human Calreticulin
Conjugates	Unconjugated
Other Names	Autoantigen RO antibody; CALR antibody; CALR protein antibody CALR_HUMAN antibody Calregulin antibody Calreticulin antibody cC1qR antibody CRP55 antibody CRT antibody CRTC antibody Endoplasmic reticulum resident protein 60 antibody Epididymis secretory sperm binding protein Li 99n antibody ERp60 antibody FLJ26680 antibody grp60 antibody HACBP antibody HEL S 99n antibody RO antibody Sicca syndrome antigen A (autoantigen Ro; calreticulin) antibody Sicca syndrome antigen A antibody SSA antibody
Accession No.	Swiss-Prot#:P27797
Calculated MW	48 kDa
SDS-PAGE MW	55 kDa
Formulation	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

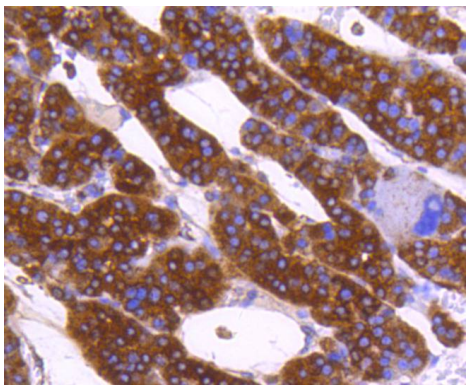
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

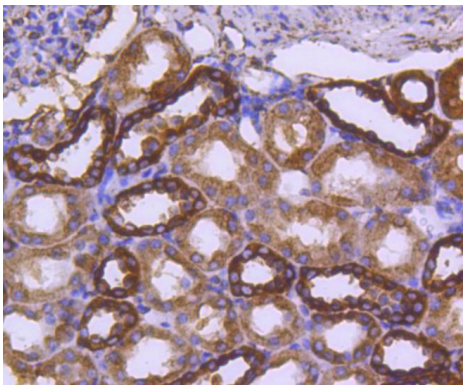
Images



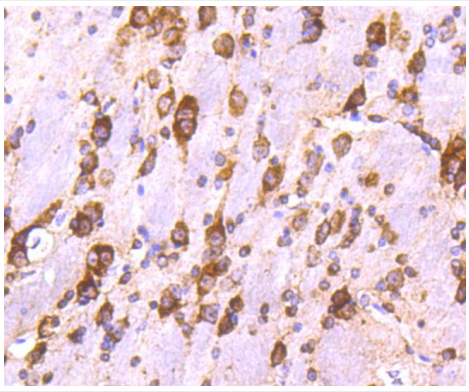
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Calreticulin antibody. Counter stained with hematoxylin.



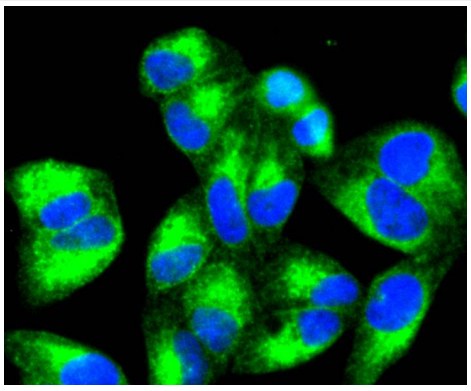
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Calreticulin antibody. Counter stained with hematoxylin.



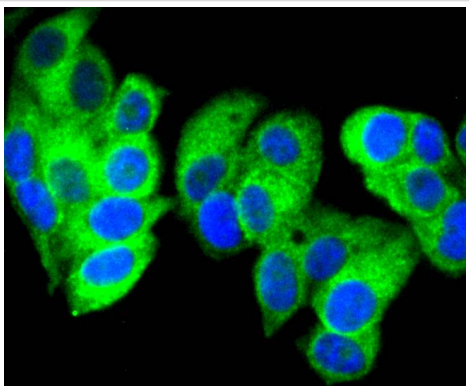
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Calreticulin antibody. Counter stained with hematoxylin.



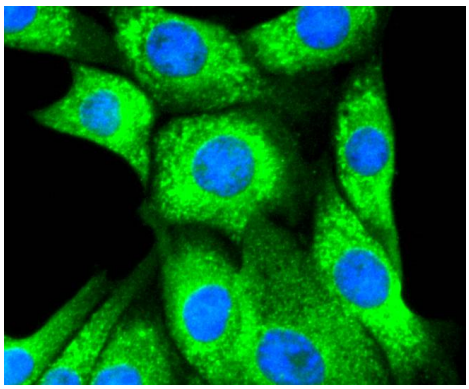
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Calreticulin antibody. Counter stained with hematoxylin.



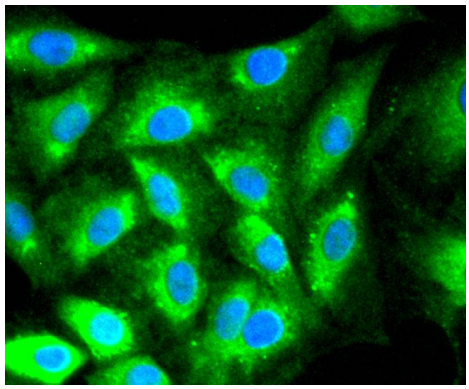
ICC staining Calreticulin in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



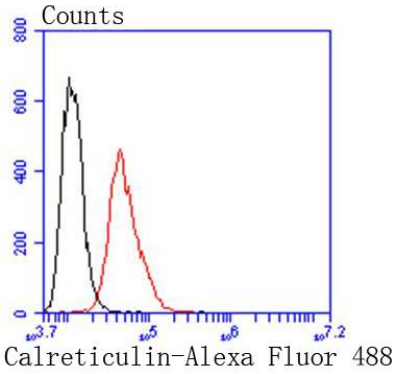
ICC staining Calreticulin in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



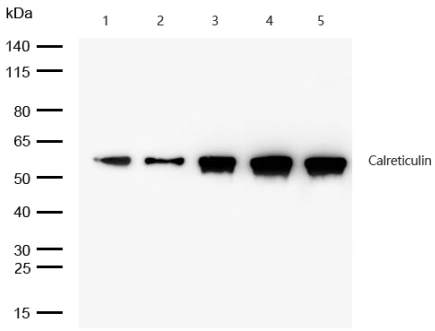
ICC staining Calreticulin in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Calreticulin in L6 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Calreticulin antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody



All lanes: Calreticulin Rabbit mAb at 1/1k dilution

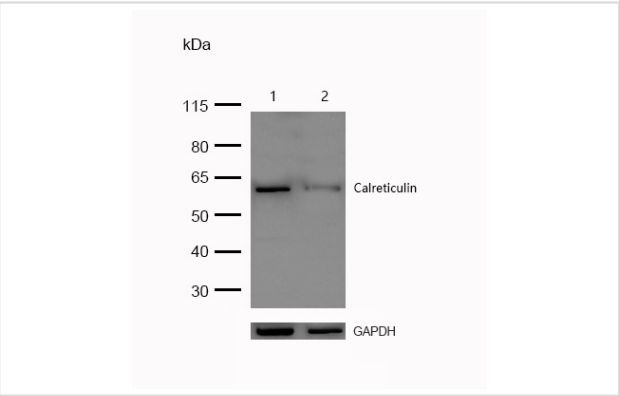
Lane 1 : HUVEC whole cell lysates
Lane 2 : A549 whole cell lysatesLane 3 : Raw264.7 whole cell lysatesLane 4 : 3T3 whole cell lysatesLane 5 : C6 whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 48 kDa
Observed band size: 55 kDa

Exposure time: 6 seconds



All lanes :Calreticulin Rabbit mAb at 1/1k dilution

Lane 1 : Wild-type HAP1 cell lysate
Lane 2 : Calreticulin knockdown HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

Background

Calnexin and calregulin (also called calreticulin) are calcium-binding proteins that are localized to the endoplasmic reticulum, Calnexin to the membrane and calregulin to the lumen. Calnexin is a type I membrane protein that interacts with newly synthesized glycoproteins in the endoplasmic reticulum. It may play a role in assisting with protein assembly and in retaining unassembled protein subunits in the endoplasmic reticulum. Calregulin has both low- and high-affinity calcium-binding sites. Neither Calnexin nor calregulin contains the calcium-binding "E-F hand" motif found in calmodulins. Calnexin and calregulin are important for the maturation of glycoproteins in the endoplasmic reticulum and appear to bind many of the same proteins.

References

1. Kojima Y et al. Cyclin-dependent kinase inhibitor 2B regulates efferocytosis and atherosclerosis. J Clin Invest 124:1083-97 (2014). 2. Angelova AL et al. Complementary induction of immunogenic cell death by oncolytic parvovirus H-1PV and gemcitabine in pancreatic cancer. J Virol 88:5263-76 (2014).

Published Papers

Jingyao Li;Huixi Yi;Yuanyuan Fu;Jiani Zhuang;Zhixiong Zhan;Liyou Guo;Ji Zheng;Xiyong Yu;Dong-Yang Zhang el at., Biodegradable iridium coordinated nanodrugs potentiate photodynamic therapy and immunotherapy of lung cancer., , (2025)

PMID:39488900

Jingyao Lio'O Wenzhi Zhuo'O Qibao Zhengo'O Huixi Yio'O Liyou Guoo'O Zhixiong Zhano'O Nannan Fuo'O Muhammad Younisoo'O Chengzhi Jino'O Junqiu Zhaio'O Dong-Yang Zhang el at., Ruthenium coordinated nanohybrids modulate tumor microenvironment and potentiate amplified phototherapy augmented immunotherapy of hypoxic tumor, Materials Today Bio, (2025)

PMID:41340912

Note: This product is for in vitro research use only and is not intended for use in humans or animals.