

## Calreticulin Rabbit mAb

Catalog No: #48841

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

## Description

Product Name	Calreticulin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SU37-03
Purification	ProA affinity purified
Applications	WB IHC ICC/IF FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
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	Predicted band size: 48 kDa
SDS-PAGE MW	Observed band size: 55 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

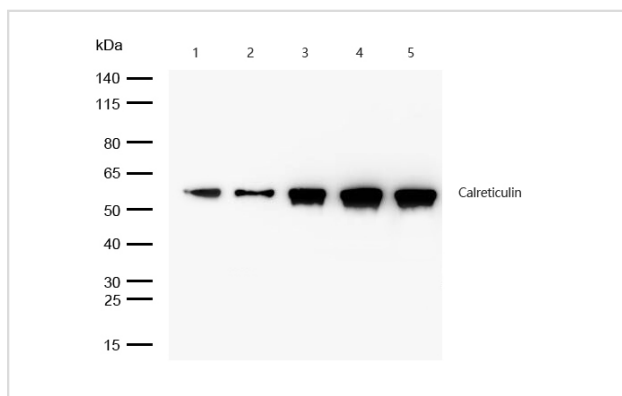
## Application Details

WB: 1:500-1:2000

IHC: 1:50-1:200

ICC/IF: 1:50-1:200

## Images



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

Lane 1 : HUVEC whole cell lysates

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

Lysates/proteins at 20 µg per lane.

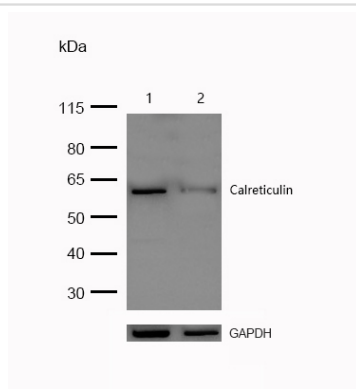
Secondary

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

Predicted band size: 48 kDa

Observed band size: 55 kDa

Exposure time: 6 seconds

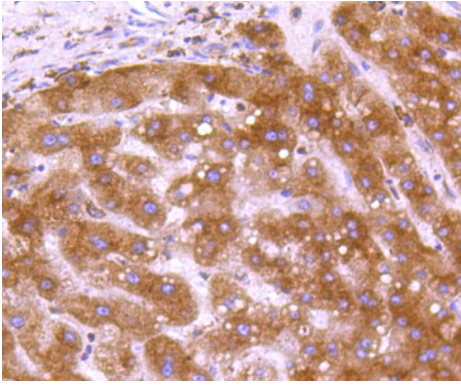


All lanes :Calreticulin Rabbit mAb at 1/1k dilution

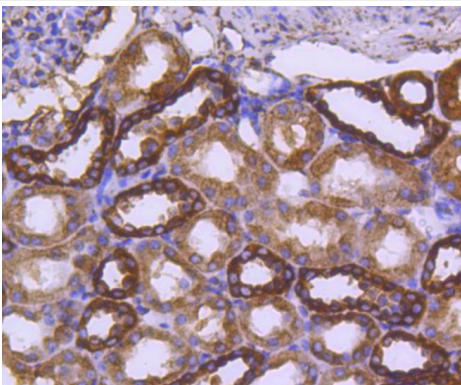
Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : Calreticulin knockdown HAP1 cell lysate

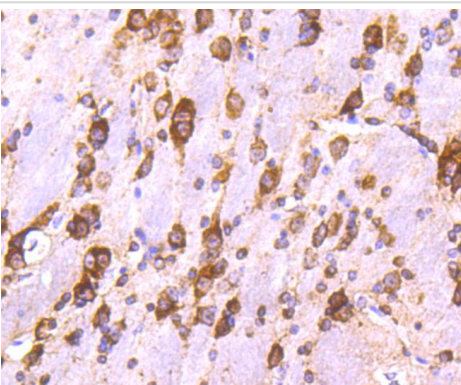
Lysates/proteins at 20 µg per lane.



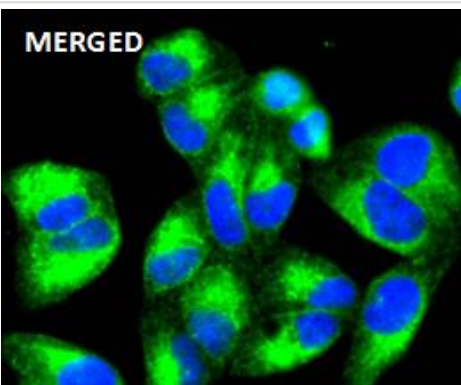
Formalin-fixed, paraffin-embedded human liver tissue stained for Calreticulin using 48841 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human kidney tissue stained for Calreticulin using 48841 at 1/100 dilution in immunohistochemical analysis.



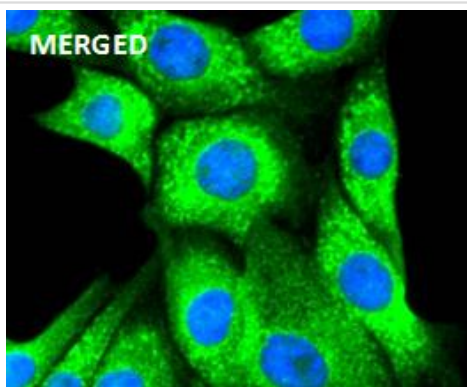
Formalin-fixed, paraffin-embedded mouse brain tissue stained for Calreticulin using 48841 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Calreticulin antibody (48841) ICC/IF staining of Calreticulin in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 48841 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

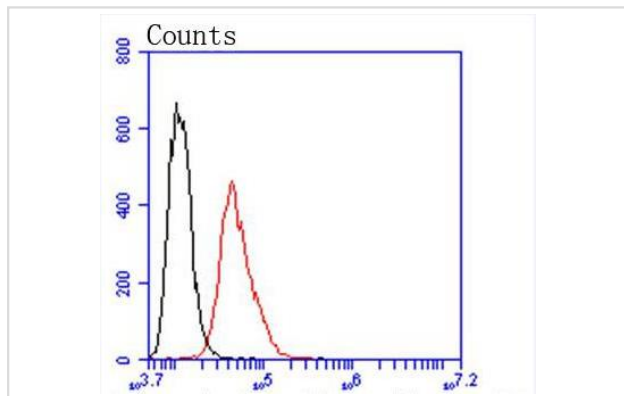
Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence Calreticulin antibody (48841) ICC/IF staining of Calreticulin in NIH/3T3 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 48841 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.



Flow Cytometry (Intracellular) Calreticulin antibody (48841) Flow cytometric analysis of Hela cells with Calreticulin antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibodyO black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## 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.

## Published Papers

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

PMID:39488900

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