

For Research Use Only

# calreticulin Polyclonal antibody

Catalog Number: 10292-1-AP

Featured Product

76 Publications



## Basic Information

### Catalog Number:

10292-1-AP

### Size:

150ul, Concentration: 400 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0325

### GenBank Accession Number:

BC002500

### GeneID (NCBI):

811

### UNIPROT ID:

P27797

### Full Name:

calreticulin

### Calculated MW:

60 kDa

### Observed MW:

55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, FC, IHC, ELISA

### Cited Applications:

WB, FC, IHC, CoIP, Cell treatment

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

### Positive Controls:

**WB** : HL-60 cells, A549 cells, mouse brain tissue, COLO 320 cells, NIH/3T3 cells, human skeletal muscle tissue, rat brain tissue, HeLa cells, HepG2 cells, MCF-7 cells, SH-SY5Y cells

**IHC** : human thyroid tissue, human skeletal muscle tissue, mouse colon tissue, mouse lung tissue, human thyroid cancer tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

CALR, also named as grp60, ERp60, HACBP, CRP55, CRTC and Calregulin, belongs to the calreticulin family. It is a molecular calcium-binding chaperone promoting folding, oligomeric assembly and quality control in the ER via the calreticulin/calnexin cycle. CALR is a ER marker. It interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. CALR interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export. The MW of CALR migrates aberrantly at 55 kDa by SDS-PAGE. Some study provided that it's a new possibility for CRT-mediated tumor immune prevention and treatment.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lihua Luo	34593005	J Nanobiotechnology	WB
Xuan Wang	36167857	Nat Commun	WB
Yezi Chen	36105615	Int J Nanomedicine	

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

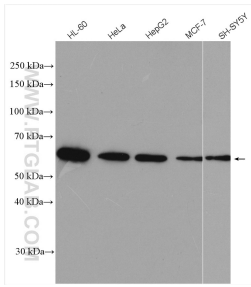
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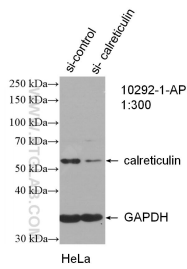
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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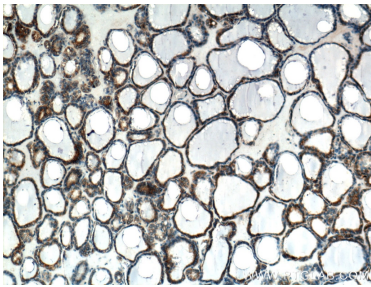
Selected Validation Data



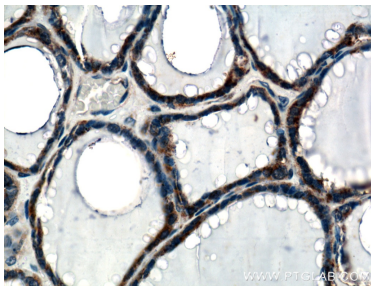
Various lysates were subjected to SDS PAGE followed by western blot with 10292-1-AP (calreticulin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



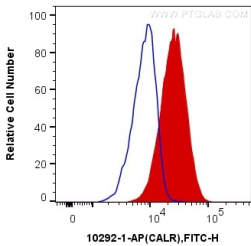
WB result of calreticulin antibody (10292-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-calreticulin transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human thyroid tissue slide using 10292-1-AP (calreticulin Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human thyroid tissue slide using 10292-1-AP (calreticulin Antibody) at dilution of 1:200 (under 40x lens).



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.4 ug Anti-Human calreticulin (10292-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).