

## Recombinant Human CALR cell lysate

**Cat. No.** CALR-1222HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human CALR / Calreticulin derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Preparation method</b>	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
<b>Lysis buffer</b>	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
<b>Quality control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue
<b>Recommended Usage</b>	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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reducing agent prior to heating.

**Stability**

Samples are stable for up to twelve months from date of receipt at -80°C

**Storage Buffer**

50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF

**Storage Instruction**

Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

## GENE INFORMATION

**Gene Name**

[CALR calreticulin \[ Homo sapiens \]](#)

**Official Symbol**

CALR

**Synonyms**

CALR; calreticulin; autoantigen Ro; cC1qR; CRT; FLJ26680; RO; Sicca syndrome antigen A (autoantigen Ro; calreticulin); SSA; CRP55; ERp60; HACBP; grp60; calregulin; endoplasmic reticulum resident protein 60; Sicca syndrome antigen A (autoantigen Ro; calreticulin);

**Gene ID**

[811](#)

**mRNA Refseq**

[NM\\_004343](#)

**Protein Refseq**

[NP\\_004334](#)

**MIM**

[109091](#)

**UniProt ID**

[P27797](#)

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**Chromosome  
Location**

19p13.3-p13.2

**Pathway**

Activation of Chaperone Genes by ATF6-alpha, organism-specific biosystem; Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem;

**Function**

DNA binding; androgen receptor binding; calcium ion binding; calcium ion binding; carbohydrate binding; chaperone binding; complement component C1q binding; hormone binding; integrin binding; iron ion binding; mRNA binding; peptide binding; protein binding; protein binding involved in protein folding; sugar binding; ubiquitin protein ligase binding; unfolded protein binding; zinc ion binding;

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