

**CALR Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50055**

**Specification**

---

**CALR Antibody - Product Information**

Application	IF, WB, IHC
Primary Accession	<a href="#">P27797</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48 KDa
Antigen Region	49-78

**CALR Antibody - Additional Information**

**Gene ID** 811

**Other Names**

Calreticulin, CRP55, Calregulin, Endoplasmic reticulum resident protein 60, ERp60, HACBP, grp60, CALR, CRTC

**Dilution**

IF~~1:100  
WB~~ 1:1000  
IHC~~1:50-1:100

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**CALR Antibody - Protein Information**

**Name** CALR ([HGNC:1455](#))

**Synonyms** CRTC

**Function**

Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER (PubMed:<a href="http://www.uniprot.org/citations/7876246" target="\_blank">7876246</a>). Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export (PubMed:<a href="http://www.uniprot.org/citations/11149926" target="\_blank">11149926</a>). Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of

calcium homeostasis (By similarity). Present in the cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation and might participate in the block to polyspermy (By similarity).

#### Cellular Location

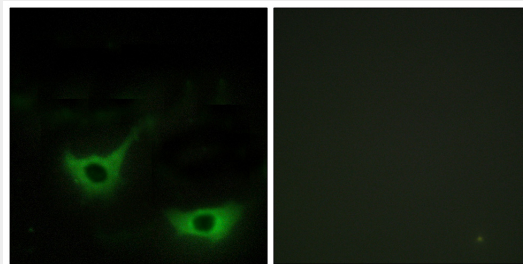
Endoplasmic reticulum lumen. Cytoplasm, cytosol. Secreted, extracellular space, extracellular matrix. Cell surface. Sarcoplasmic reticulum lumen {ECO:0000250|UniProtKB:P28491}. Cytoplasmic vesicle, secretory vesicle, Cortical granule {ECO:0000250|UniProtKB:Q8K3H7}. Cytolytic granule. Note=Also found in cell surface (T cells), cytosol and extracellular matrix (PubMed:10358038). During oocyte maturation and after parthenogenetic activation accumulates in cortical granules. In pronuclear and early cleaved embryos localizes weakly to cytoplasm around nucleus and more strongly in the region near the cortex (By similarity). In cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation (By similarity). {ECO:0000250|UniProtKB:P28491, ECO:0000250|UniProtKB:Q8K3H7, ECO:0000269|PubMed:8418194}

#### CALR Antibody - Protocols

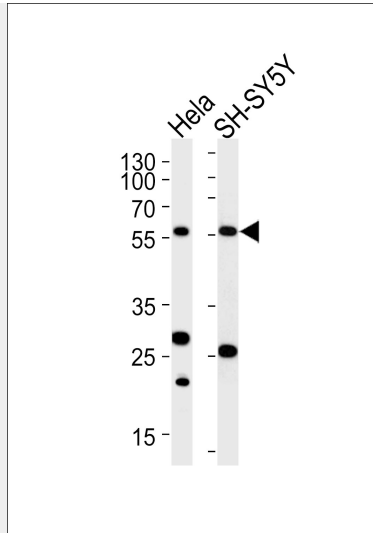
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

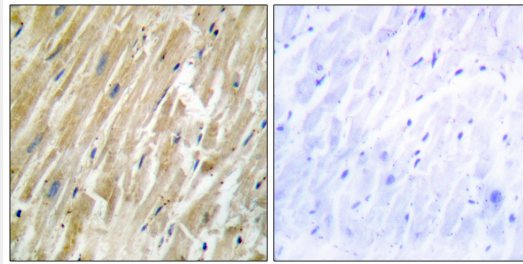
#### CALR Antibody - Images



Immunofluorescence analysis of NIH/3T3 cells, using CALR antibody.



Western blot analysis of lysates from HeLa,SH-SY5Y cell line (from left to right),using CALR Antibody(C10495). C10495 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.



Immunohistochemistry analysis of paraffin-embedded human heart tissue using CALR antibody.

### **CALR Antibody - Background**

Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export. Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of calcium homeostasis (By similarity).

### **CALR Antibody - References**

McCauliffe D.P.,et al.J. Clin. Invest. 85:1379-1391(1990).  
Rokeach L.A.,et al.J. Immunol. 147:3031-3039(1991).  
McCauliffe D.P.,et al.J. Biol. Chem. 267:2557-2562(1992).  
Liu J.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.  
Goshima N.,et al.Nat. Methods 5:1011-1017(2008).

### **CALR Antibody - Citations**

- [The Individual Effects of Cyclin-Dependent Kinase Inhibitors on Head and Neck Cancer Cells-A Systematic Analysis](#)