

CALR / Calreticulin Antibody (aa291-304)

Goat Polyclonal Antibody Catalog # ALS16311

Specification

CALR / Calreticulin Antibody (aa291-304) - Product Information

Application IHC
Primary Accession P27797

Reactivity Human, Rat, Monkey

Host Goat
Clonality Polyclonal
Calculated MW 48kDa KDa

CALR / Calreticulin Antibody (aa291-304) - Additional Information

Gene ID 811

Other Names

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

Target/Specificity

Human CALR / Calreticulin

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

CALR / Calreticulin Antibody (aa291-304) is for research use only and not for use in diagnostic or therapeutic procedures.

CALR / Calreticulin Antibody (aa291-304) - 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:7876246). Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export (PubMed:11149926). 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

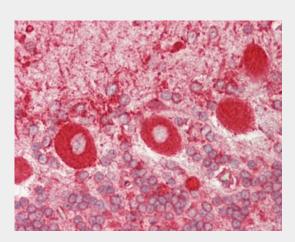
Endoplasmic reticulum lumen. Cytoplasm, cytosol. Secreted, extracellular space, extracellular matrix. Cell surface. Sarcoplasmic reticulum lumen {ECO:0000250|UniProtKB:P28491}. Cytoplasmic vesicle, secretory vesicle, Cortical granule {ECO:0000250|UniProtKB:Q8K3H7}. Cytolytic granule. Note=Also found 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 / Calreticulin Antibody (aa291-304) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CALR / Calreticulin Antibody (aa291-304) - Images



Anti-CALR / Calreticulin antibody IHC staining of human brain, cerebellum.

CALR / Calreticulin Antibody (aa291-304) - 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 / Calreticulin Antibody (aa291-304) - 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).