

DNAxPAb

Hard-to-Find  
Antibody

# CALR DNAxPab

Catalog # H00000811-W01P

Size 200 ug

## Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human CALR DNA using DNAx™ Immune technology.
Technology	<a href="#">DNAx™ Immune</a>
Immunogen	Full-length human DNA
Sequence	MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDK GLQTSQDARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPSLDQTDMHGDSEY NIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLVRPDNTYEVKIDNSQVESGSL EDDWDFLPPKKIKDPDASKPEDWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMD GEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDPSIAYDNFGLGLDLWQVKS GTIFDNFLITNDEAYAEFEGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDKED DEDKDEDEDEEDKEEDEEEDVPGQAKDEL
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

## Gene Info — CALR

Entrez GeneID [811](#)

GeneBank Accession# [NM\\_004343.2](#)

Protein Accession# [NP\\_004334.1](#)

Gene Name CALR

Gene Alias CRT, FLJ26680, RO, SSA, cC1qR

Gene Description calreticulin

Omim ID [109091](#)

Gene Ontology [Hyperlink](#)

### Gene Summary

Calreticulin is a multifunctional protein that acts as a major Ca(2+)-binding (storage) protein in the lumen of the endoplasmic reticulum. It is also found in the nucleus, suggesting that it may have a role in transcription regulation. Calreticulin binds to the synthetic peptide KLGFFKR, which is almost identical to an amino acid sequence in the DNA-binding domain of the superfamily of nuclear receptors. Calreticulin binds to antibodies in certain sera of systemic lupus and Sjogren patients which contain anti-Ro/SSA antibodies, it is highly conserved among species, and it is located in the endoplasmic and sarcoplasmic reticulum where it may bind calcium. The amino terminus of calreticulin interacts with the DNA-binding domain of the glucocorticoid receptor and prevents the receptor from binding to its specific glucocorticoid response element. Calreticulin can inhibit the binding of androgen receptor to its hormone-responsive DNA element and can inhibit androgen receptor and retinoic acid receptor transcriptional activities in vivo, as well as retinoic acid-induced neuronal differentiation. Thus, calreticulin can act as an important modulator of the regulation of gene transcription by nuclear hormone receptors. Systemic lupus erythematosus is associated with increased autoantibody titers against calreticulin but calreticulin is not a Ro/SS-A antigen. Earlier papers referred to calreticulin as an Ro/SS-A antigen but this was later disproven. Increased autoantibody titer against human calreticulin is found in infants with complete congenital heart block of both the IgG and IgM classes. [provided by RefSeq]

Other Designations Sicca syndrome antigen A (autoantigen Ro; calreticulin)|autoantigen Ro

## Pathway

- [Antigen processing and presentation](#)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)