

utions

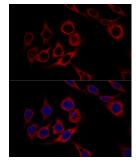
## **CALR Polyclonal Antibody**

Catalog No. Applications Cross-reactivity	A1066 WB, IF, IP Human, Mouse, Rat	Category Observed MW Calculated MW	5	Polyclonal Antibodies 55kDa 48kDa	
Immunogen Information				Recommended Dilu	
Immunogen Gene ID	Recombinant fusion protein containing a sequence corresponding to amino acids 18-417 of human CALR (NP_004334.1). 811			WB 1:500 - 1:2000 IF 1:20 - 1:100	
Swiss prot Synonyms	P27797 CALR; CRT; HEL-S-99n; RO; SSA ulin	; cC1qR; calretic		IP 1:50 - 1:200	
Product information				HER SH SHS HER H. NOVE DATE	
Source Isotype	Rabbit IgG			100kDa	

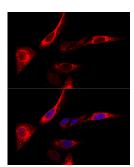
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<b>Purification method</b>	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Background

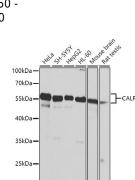
Calreticulin is a multifunctional protein that acts as a major Ca(2+)-binding (storage) protein in the lumen of the endoplasmic reticulum. It is also found in the nucleus, suggesting that it may have a role in transcription regulation. Calreticulin binds to the synthetic peptide KLGFFKR, which is almost 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 hormoneresponsive 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.



Immunofluorescence - CALR Polyclonal Antibody (A1066)

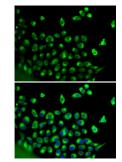


Immunofluorescence - CALR Polyclonal Antibody (A1066)



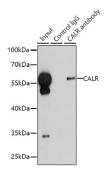
Western blot - CALR Polyclonal Antibody (A1066)

15kDa



Immunofluorescence - CALR Polyclonal Antibody (A1066)





Immunoprecipitation - CALR Polyclonal Antibody (A1066)