



Catalog: OM105142

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Rabbit anti-CALR polyclonal antibody - C-terminal region

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☐ 100ug

Product profile

Product name	Rabbit anti-CALR polyclonal antibody - C-terminal region
Antibody Type	Primary Antibodies
Immunogen	The immunogen for anti-CALR antibody: synthetic peptide directed towards the C terminal of human CALR

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB
Species Reactivity	Bovine Human Mouse Rat
Concentration	1 mg/ml
Purification	Protein A

Target Information

Gene Symbol	CALR
Gene Synonyms	RO; CRT; SSA; cC1qR
Gene Full Name	Calreticulin
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.

corticoid 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.

Alternative Names RO, CRT, SSA, cC1qR

Molecular Weight(MW) 48kDa

Sequence 417 amino acids

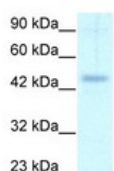
Database Links

Entrez Gene 811

SwissProt ID P27797

Protein Accession NP_004334

Application



Western blot

1.0-2.0ug/ml

ELISA Titer: 1:12500

Positive Control: Daudi cell lysate

Application Notes **WB:**1:500~1:2000

Notes:Optimal dilutions/concentrations should be determined by the researcher.

Additional Information

Form Liquid

Storage Instructions Aliquot and store at -20°C. Avoid repeated freeze / thaw cycles

Storage Buffer phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Note The product is for research use only,not for use in diagnostic or therapeutic procedures.

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