



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0


F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Product Number	ARP58124_P050-Biotin
Product Page	www.avivasysbio.com/calr-antibody-middle-region-biotin-arp58124-p050-biotin.html
Name	CALR Antibody - middle region : Biotin (ARP58124_P050-Biotin)
Protein Size (# AA)	417 amino acids
Molecular Weight	46kDa
Conjugation	Biotin
NCBI Gene Id	811
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Calreticulin
Alias Symbols	RO, CRT, SSA, cC1qR, HEL-S-99n
Peptide Sequence	Synthetic peptide located within the following region: PDPSIYAYDNFGLGLDLWQVKSQTIFDNFLITNDEAYAEFFGNETWGVV
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Description of Target	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.
Protein Interactions	HUWE1; UBC; LGR4; MDM2; RNF2; SUZ12; rev; AARSD1; THG1L; NSUN2; SH3GLB1; EEF2K; ARPC1A; ANP32B; ACTR2; ARPC1B; ARPC3; ARPC5; TPD52L2; SH3GL1; RPA3; RPA1; PRKACA; PFDN5; LPP; PARK2; UPF2; UBD; SOX2; PDIA3; CLN5; ITGA3; HLA-E; HLA-A; CALR; SLC27A2; env; MTN
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-CALR (ARP58124_P050-Biotin) antibody
Blocking Peptide	For anti-CALR (ARP58124_P050-Biotin) antibody is Catalog # AAP58124 (Previous Catalog # AAPP45809)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human CALR
Uniprot ID	P27797
Protein Name	Calreticulin
Sample Type Confirmation	CALR is strongly supported by BioGPS gene expression data to be expressed in HepG2
Protein Accession #	NP_004334

Purification	Affinity Purified
Nucleotide Accession #	NM_004343
Gene Symbol	CALR
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit
Application	WB
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%
Image 1	 A schematic diagram of a Y-shaped antibody molecule, consisting of two heavy chains and two light chains, represented by thick black lines.

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.
Optimal conditions of its use should be determined by end users.

AVIVA SYSTEMS BIOLOGY
6370 Nancy Ridge Dr., Suite 104, San Diego, CA 92121 USA | Tel: (858)552-6979 | info@avivasysbio.com