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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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|-----------------------------------|--|
| Product Number | ARP58124_P050-HRP |
| Product Page | www.avivasysbio.com/calr-antibody-middle-region-hrp-arp58124-p050-hrp.html |
| Name | CALR Antibody - middle region : HRP (ARP58124_P050-HRP) |
| Protein Size (# AA) | 417 amino acids |
| Molecular Weight | 46kDa |
| Conjugation | HRP: Horseradish Peroxidase |
| 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: PDPSIYAYDNFVGLGLDLWQVKSGTIFDNFLITNDEAYAEFEGNETWGVV |
| Product Format | Liquid. Purified antibody is supplied in high phosphate PBS, 100 mM phosphate, 150 mM NaCl, pH 7.6. |
| 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-HRP) antibody |
| Blocking Peptide | For anti-CALR (ARP58124_P050-HRP) 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 |

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| 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. |

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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.

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