Product Name: KD-Validated Calreticulin Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01796
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 48.1kDa

Antigen Information

Gene Name	CALR
Alternative Names	CALR; Calreticulin; Calregulin; CC1qR; SSA; CRT; RO; Sicca Syndrome Antigen A (Autoantigen Ro; Calreticulin); Endoplasmic Reticulum Resident Protein 60; FLJ26680; CALR1; CRP55; ERp60; HACBP; Grp60; Epididymis Secretory Sperm Binding Protein Li 99n; Autoantigen Ro; HEL-S-99n; CRTC
Gene ID	811.0
SwissProt ID	P27797
Immunogen	A synthesized peptide derived from human calreticulin

Background

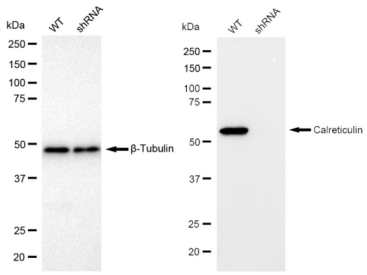
Calreticulin is a highly conserved chaperone protein which resides primarily in the endoplasmic reticulum, and is involved in a

variety of cellular processes, among them, cell adhesion. Additionally, it functions in protein folding quality control and calcium homeostasis. Calreticulin is also found in the nucleus, suggesting that it may have a role in transcription regulation. Systemic lupus erythematosus is associated with increased autoantibody titers against calreticulin. Recurrent mutations in calreticulin have been linked to various neoplasms, including the myeloproliferative type.[provided by RefSeq, May 2020]

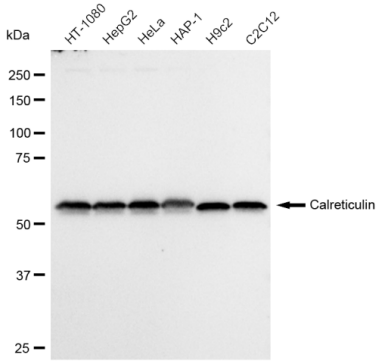
Research Area

Tags & Cell Markers

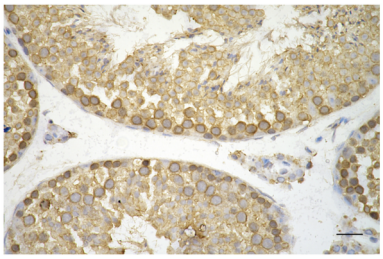
Image Data



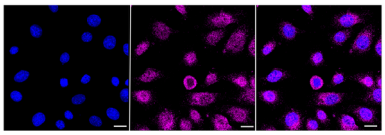
Western blotting analysis using calreticulin antibody (KVAb01796). Calreticulin expression in wild type (WT) and calreticulin (CALR) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with calreticulin antibody (KVAb01796, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



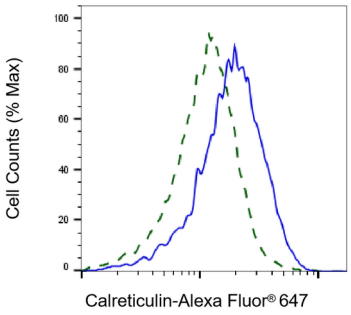
Western blotting analysis using Calreticulin antibody (KVAb01796). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Calreticulin antibody (KVAb01796, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



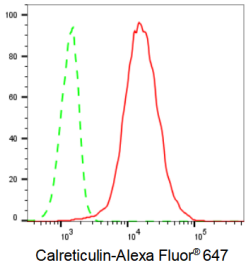
Immunohistochemistry was performed on paraffin-embedded mouse testis tissue using calreticulin antibody (KVAb01796, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of C2C12 cells with Calreticulin antibody (KVAb01796, 1:1,000). Nuclei were stained blue with DAPI; Calreticulin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.



Validation of Calreticulin knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Calreticulin antibody (KVAb01796, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Calreticulin expression in C2C12 cells using Calreticulin antibody (KVAb01796, 1:2,000). Green, isotype control; red, Calreticulin.