



Calreticulin Rabbit Polyclonal Antibody

E10-20177

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. 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. Increased autoantibody titer against human calreticulin is found in infants with complete congenital heart block of both the IgG and IgM classes.

Catalog Number: E10-20177

Amount: 100µg/100µl

Clone Number: RO; CRT; SSA; cC1qR;

Species: Rabbit IgG2a

Aliases: RO; CRT; SSA; cC1qR; FLJ26680; CALR

Entrez Gene: 811

Immunogen: Synthetic peptide corresponding to aa(E-E-E-D-V-P-G-Q-A-K-D-E-L-C) of human Calreticulin, conjugated to KLH.

Storage: Store at 4 °C for long term storage, store at -20 °C

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: IF, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: IF. 1/200 - 1/1000. ELISA. Propose dilution 1/10000.

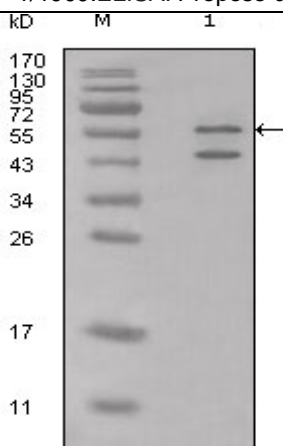


Figure 1. Western blot analysis using anti-Calreticulin polyclonal antibody against Hela cell lysate.

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