

Calreticulin Polyclonal Antibody

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| CATALOG #: | 3077-100 |
| AMOUNT: | 100 µg |
| LOT #: | _____ |
| HOST: | Rabbit |
| IMMUNOGEN: | Synthetic peptide mapping to the C-terminus of Human Calreticulin (Internal ID# BV-612) |
| SPECIES REACTIVITY: | human, mouse, rat |

ANTIBODY FORMULATION:

100 µg (200 µg/ml) protein A purified antibody in PBS containing 30% glycerol, 0.5 mg/ml BSA, and 0.01% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

BACKGROUND DESCRIPTION:

Calreticulin is a calcium binding protein found in abundance in the endoplasmic reticulum and the sarcoplasmic reticulum. Like many other ER proteins, it has the conserved ER retention KDEL (Lys-Asp-Glu-Leu) sequence at its C-terminus. Calreticulin has also been detected in the nucleus and nuclear envelop. Recent studies suggest that this soluble ER protein has a multifunctional role as it appears to be involved in calcium storage and regulation as well as having a molecular chaperone activity. Studies also suggest its involvement in certain autoimmune diseases. Consistence with its multiple functions the calreticulin molecule appears to have a zonal character. The protein has both high and low affinity calcium binding sites.

APPLICATIONS AND USAGE:

The antibody can be used in Western blot analysis (0.5-4 µg/ml). Based on researchers feed back, it can also be used in Immunohistochemistry (10-20 µg/ml). However, the optimal conditions should be determined individually.

SPECIFICITY:

Recognizes a 60 kDa calreticulin on SDS-PAGE immunoblots. Jurkat cell lysate can be used as a positive control.

FOR IN VITRO RESEARCH USE ONLY! NOT TO BE USED IN HUMAN SUBJECTS!

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