

Anti-Calreticulin Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 56259

Size: 100ul whole antiserum

BACKGROUND

Calreticulin is a multifunctional highly conserved Ca^{+2} -binding protein that is localized primarily in the endoplasmic reticulum (ER) but has also been detected in the nucleus and nuclear envelope. Like many other ER proteins, it has the conserved ER retention KDEL sequence (Lys-Asp-Glu-Leu) at its C-terminus.

Calreticulin is made up of three domains: 1 180 residue N-terminal domain, a proline-rich P-domain (aa 189-288) that binds Ca^{+2} with high affinity and shares homology with calnexin and calmeglin, and a 110 residue C-terminal domain that binds Ca^{+2} with low affinity but high capacity. Calreticulin appears to be involved in calcium storage and regulation, has molecular chaperone activity, and has been shown to be induced in response to various types of cell stress.

SPECIFICATION SUMMARY

Antigen: Human calreticulin synthetic peptide conjugated to KLH.

Host Species: Rabbit

Antibody Class: Polyclonal

Preservatives: None.

SPECIFICITY

This antibody recognizes human, mouse, rat, bovine, canine, chicken, guinea pig, monkey, pig, hamster, rabbit, and sheep calreticulin.

APPLICATIONS

Immunoblotting: use at 1:5,000-1:10,000 dilution. A band of ~63 kDa is detected. These are recommended concentrations. User should determine optimal concentrations for their application.

Positive control: HeLa cell lysate.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C . Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.