Calreticulin monoclonal antibody (FMC 75) (PE conjugate)

The multifunctional, multi -compartmental protein Calreticulin (Crt) functions as a soluble molecular chaperone of new or misfolded proteins, as well as a Ca2+-binding protein. Most abundant in the ER lumen, Crt expression also occurs in other membrane-bound organelles, the cell surface, and extracellularly. Also known as CRP-55, calregulin and HACBP (high affinity calcium-binding protein), Crt contains the ER-retrieval sequence, KDEL, and is the solub le paralog of the ER membrane protein Calnexin (Cnx). Crt's three domains include a 180 residue N-terminal domain, a proline-rich P domain residues 189 -288) that binds Ca2+ with high affinity and shares homology with Cnx and calmegin, and a 110 residue C-terminal domain that binds Ca2+ with low affinity but high capacity. The P-domain may interact with the co-chaperone ERp57 (Grp58), a thiol reductase. The NMR structure of the P -domain consists of an extended hairpin that appears to form a curved protrusion from the Crt core domain. Both Crt and its membrane bound homolog CNX interact with proteins and glycoproteins possessing monoglucosylated N -glycans. The Crt/Cnx cycle promotes correct folding, inhibits aggregation of folding intermediates, blocks premature oligomerization, regulates ER degradation, and prevents incompletely folded glycoproteins from exiting to the Golgi complex. Crt also appears to function as an auto-antigen in systemic lupus erythematosus, rheumatoid arthritis, celiac disease, complete congenital heart block, and halothane hepatitis. A diversity of additional functions attributed to Crt includes adhesion, blood function, and cardiac and neuronal development gene expression.

This antibody is covered by our Worry-Free Guarantee.

Ordering Information

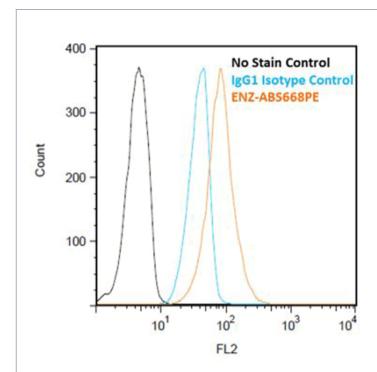
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ENZ-ABS668PE-0200

200µg

Manuals, SDS & CofA

View Online »



Flow cytometry analysis of 10⁶ Jurkat cells stained using Calreticulin monoclonal antibody (FMC 75), (Prod. No. ENZ-ABS668PE), at a concentration of 10µg/ml.

Handling & Storage

Handling Avoid freeze/thaw cycles. Protect from light.

Long Term Storage +4°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name CALR, CRT

Application Flow Cytometry

FMC 75 Clone

Formulation Liquid. In PBS, pH 7.2, containing 0.09% sodium azide.

Host Mouse

Recombinant calreticulin. **Immunogen**

IgG1k Isotype

Protein G affinity purified. **Purity Detail**

Recommendation Dilutions/Conditions Flow Cytometry (1:100)Suggested dilutions/conditions may

> not be available for all applications. Optimal conditions must be determined individually for each application.

Source Purified from hybridoma tissue culture supernatant

Species Reactivity Human, Monkey

UniProt ID P27797 (human)

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ENZO LIFE SCIENCES, Phone: 800.942.0430 info-

European Sales Office ENZO LIFE SCIENCES (ELS) AG Phone: +41 61 926 8989 eu@enzolifesciences.com Belgium, The Netherlands & Luxembourg Phone: +32 3 466 0420 infobe@enzolifesciences.com France Phone: +33 472 440 655 fr@enzolifesciences.com

Phone: +49 7621 5500 526 de@enzolifesciences.com

UK & Ireland Phone (UK customers): 0845 601 1488 Phone: +44 1392 825900 uk@enzolifesciences.com