Human Calreticulin-2
Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 321007

Catalog Number: IC2927S

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Calreticulin-2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Calreticulin is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 321007
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Calreticulin-2 Thr20-Leu384 Accession # Q96L12
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	MCF-7 human breast cancer cell line fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Calreticulin-2 is a soluble lectin-like molecule that participates in the protein folding and quality control cycle in the endoplasmic reticulum (ER) lumen. Mature human Calreticulin-2 has a 178 amino acid N-terminal globular domain, a 97 aa central P-domain, and a 90 aa C-terminal domain. The globular domain shows lectin activity, the P-domain binds one Ca^{++} ion with high affinity, and the C-terminus binds Ca^{++} and contains an RNEL ER retention motif. The amino acid sequence of Calreticulin-2 is 84%, 83% and 87% identical to that of mouse, bovine and canine Calreticulin-2, respectively.

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