

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Calreticulin-2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Calreticulin is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 321007
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Calreticulin-2 Thr20-Leu384 Accession # Q96L12
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	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.

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

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> ● 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<sup>++</sup> ion with high affinity, and the C-terminus binds Ca<sup>++</sup> 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.

**PRODUCT SPECIFIC NOTICES**

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