

DESCRIPTION

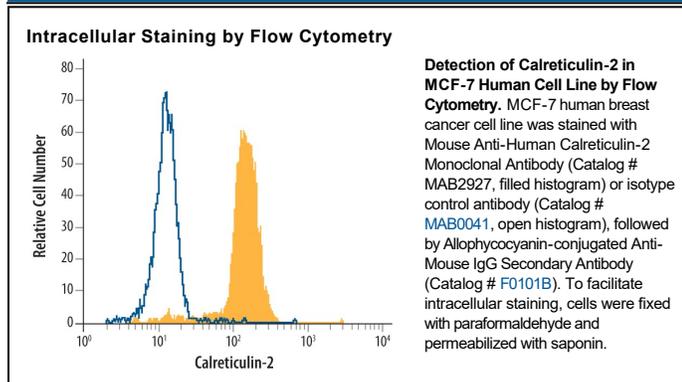
Species Reactivity	Human
Specificity	Detects human Calreticulin-2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Calreticulin is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 321007
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Calreticulin-2 Thr20-Leu384 Accession # Q96L12
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.