



## *Biotinylated Anti-human Calreticulin-2 Antibody*

### ORDERING INFORMATION

**Catalog Number:** BAF2927

**Lot Number:** WEW01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human Calreticulin-2

**Immunogen:** *E. coli*-derived rhCalreticulin-2

**Ig Type:** goat IgG

**Application:** Western blot

### ***Preparation***

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Calreticulin-2 (rhCalreticulin-2; aa 20 - 384; Accession # Q96L12). Human Calreticulin-2 specific IgG was purified by human Calreticulin-2 affinity chromatography and then biotinylated. Calreticulin-2 is a testis-specific, 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.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in human Calreticulin-2 western blots.

### ***Application***

**Western Blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Calreticulin-2. The detection limit for rhCalreticulin-2 is approximately 2 ng/lane under non-reducing and reducing conditions.

**Optimal dilutions should be determined by each laboratory for each application.**