

CALR Recombinant Protein

CATALOG NO.: XW-RP3028

BACKGROUND:

Calreticulin is a multifunctional protein that acts as a major Ca(2+)-binding (storage) protein in the lumen of the endoplasmic reticulum. It is also found in the nucleus, suggesting that it may have a role in transcription regulation. Calreticulin binds to the synthetic peptide KLGFFKR, which is almost identical to an amino acid sequence in the DNA-binding domain of the superfamily of nuclear receptors. Calreticulin binds to antibodies in certain sera of systemic lupus and Sjogren patients which contain anti-Ro/SSA antibodies, it is highly conserved among species, and it is located in the endoplasmic and sarcoplasmic reticulum where it may bind calcium.

SOURCE: E. coli

PURITY: ~90%

BUFFER: 10 mM Tris, pH 8.0, 0.002% NaN₃, 3mM NaCl, 2.5mM

FUSION PARTNER: His-tag at N-terminus

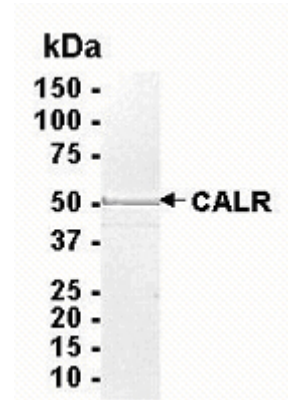
DOMAIN: aa. 18-417

MOLECULAR WEIGHT: 46 kDa (Calculated)

PROTEIN GI #: 4757900

PROTEIN ACCESSION #: NP_004334

TESTED APPLICATION: WB,E,MS



SDS PAGE: Analysis of CALR Recombinant Protein. 4-20% SDS gradient gel. Coomassie blue staining.

STORAGE: Store at -70°C. As with any protein, exposing CALR recombinant protein to repeated freeze/thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

During shipment, small volumes of CALR recombinant protein will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap. **For research use only.**